Service Manual



Colour Television **TX-28LK10F** TX-28SK10F TX-25LK10F **EURO-4H Chassis**

SPECIFICATIONS

(Information in brackets [] refers to model TX-28SK10F (Information in brackets { } refers to model TX-25LK10F 220-240V a.c., 50Hz Power Source: 121W {103W}

Power Consumption:

Standby Power

Consumption:

Aerial Impedance: Receiving System:

 75Ω unbalanced, Coaxial Type PAL-I, B/G, H, D/K, PAL-525/60 SECAM B/G, D/K, L/L

M.NTSC (AV only) NTSC (AV only)

Receiving Channels:

VHF E2-E12 VHF A-H (ITALY) VHF R3-R5 UHF E21-E69 CATV S1-S10 (M1-M10)

VHF H1-H2 (ITALY) VHF R1-R2 VHF R6-R12 CATV (S01-S05) CATV S11-S20 (U1-U10)

CATV S21-S41 (HYPERBAND) Intermediate Frequency:

Sound

38,9MHz, 33,9MHz

33,4MHz (B/G), 33,16MHz (A2) 33,05MHz (NICAM B/G,D/K,L)

32,4MHz (D/K),32,66MHz(CZ STEREO) 32,9MHz (I)

 $500 mV rms1 k\Omega$

500mV rms $10\text{k}\Omega$

1V p-p 75Ω

40,4MHz (L'), 39,75MHz (L'NICAM) Colour 34,47MHz (PAL)

34,5MHz, 34,65MHz (SECAM)

38,3MHz, 38,15MHz (SECAM L')

Video/Audio Terminals:

AUDIO MONITOR OUT Audio (RCAx2) AV1 IN Video (21 pin) Audio (21 pin) **AV1 OUT** AV2 IN

RGB (21 pin) 0,7V p-p 75Ω Video (21 pin) 1V p-p 75Ω Audio (21 pin) $500 \text{mV} \text{ rms } 1 \text{k}\Omega$ Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms $10\text{k}\Omega$ S-Video IN Y: 1V p-p 75Ω (21 pin) C: 0.3V p-p 75Q Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms 1kΩ Audio (RCAx2) 500mV rms10kQ

AV3 IN (only TX-28 LK10F and TX-25LK10F)

Video (RCAx1) 1V p-p 75Ω {26kV ±1kV} 28kV ±1kV

High Voltage: Picture Tube:

AV2 OUT

A66ECF50X82 66cm {A59EAK071X54 59cm}

Audio Output: 2x7W RMS, 2x15W MPO 8Ω Impedance

Headphones Accessories supplied: 8Ω Impedance Remote Control 2 x R6 (UM3) Batteries

Dimensions:

Height: 575mm {525mm} Width: 775mm {717mm} Depth: 460mm {466mm} 32,5kg {26kg}

Specifications are subject to change without notice. Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO-4H technical guide.

TECHNISCHE DATEN

(Die Auskunft in den Klammern [] bezeicht sich auf das folgende Modell TX-28SK10F) (Die Auskunft in den Klammern {} bezeicht sich auf das folgende Modell TX-25LK10F)

Netzspannung: 220-240V a.c., 50Hz

Leistungsaufnahme:

121W {103W}

Standby

Leistungsaufnahme:

75Ω asymmetrisch, Koaxial-Typ

Antennenimpedanz: Empfangssystem:

PAL-I, B/G, H, D/K, PAL-525/60 SECAM B/G, D/K, L/L' M.NTSC (nur AV Eingang) NTSC (nur AV Eingang)

Empfangsbereiche:

VHF E2-E12 VHF A-H (ITALY) VHF R3-R5 UHF E21-E69

CATV S1-S10 (M1-M10)

VHF H1-H2 (ITALY) VHF R1-R2 VHF R6-R12 CATV (S01-S05) CATV \$11-S20 (U1-U10)

CATV S21-S41 (HYPERBAND) Zwischenfrequenz:

Video Sound

Colour

38.9MHz 33.9MHz 33,4MHz (B/G), 33,16MHz (A2) 33,05MHz (NICAM B/G,D/K,L)

32,4MHz (D/K),32,66MHz(CZ STEREO) 32,9MHz (I)

40,4MHz (L'), 39,75MHz (L'NICAM)

Audio (RCAx2)

34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM) 38,3MHz, 38,15MHz (SECAM L'))

Video/Audio Anschlüsse: **AUDIO MONITOR OUT**

AV1 EINGANG

AV1 AUSGANG

AV2 FINGANG

AV2 AUSGANG

Hochspannung:

1V p-p 75Ω Video (21 pin) 500mV rms 10kΩ Audio (21 pin) RGB (21 pin) 0,7V p-p 75Ω Video (21 pin) 1V p-p 75Ω $500mV \text{ rms } 1k\Omega$ Audio (21 pin) Video (21 pin) 1V p-p 75Ω Audio (21 pin) 500mV rms $10k\Omega$

S-Video IN (21 pin) Video (21 pin) Audio (21 pin)

Y: 1V p-p 75Ω C: 0,3V p-p 75Ω 1V p-p 75Ω $500 \text{mV} \text{ rms } 1 \text{k}\Omega$

500mV rms1k Ω

AV3 EINGANG (nur TX-28 LK10F und TX-25LK10F)

Audio (RCAx2) $500 mV rms 10 k\Omega$ 1V p-p 75Ω {26kV ±1kV} Video (RCAx1) 28kV/ +1kV/

Bildrohre: Ton Ausgangsleistung: A66ECF50X82 66cm {A59EAK071X54 59cm} 2x7W RMS,2x15W MPO 8Ω Impedanz

Lautsprecher Kopfhörer: Mitgel. Zubehör:

8Ω Impedanz Fernbedienung 2 x R6 (UM3) Batterien

Abmessungen:

Höhe: 575mm {525mm} Breite: 775mm (717mm) Tiefe: 460mm {466mm} Gewicht: 32,5kg {26kg}

Änderungen der Technisichen Daten vorbehalten. Gewichte und Abmessungen sind Näherungsangaben.

Hinweis: Bitte verwenden Sie das Service Manual zusammen mit dem Technical Guide.



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SAFETY PRECAUTIONS

GENERAL GUIDE LINES

- It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
- When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
- 4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
- 5. Potentials as high as 29kV {27kV} are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
- After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

- Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
- Turn on the receiver's power switch.
- 3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

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SICHERHEITSVORKEHRUNGEN ALLGEMEINE RICHTLINIEN

- Es ist empfehlenswert einen Trenntransformator in die Stromversorgung zu schalten, bevor Reparaturen an einem Gerät vorgenommen werden, dessen Chassis unter Spannung steht.
- Bei der Durchführung von Servicearbeiten dürfen die ursprünglichen Kabelanschlüsse nicht vertauscht werden. Dies gilt insbesondere für die Anschlüsse im Hochspannungsteil. Hat sich ein Kurzschluß ereignet, dann sind alle Teile, an denen Spuren von Überhitzung sichtbar sind, auszuwechseln.
- Nach Beenden der Servicearbeiten ist sicherzustellen, daß alle Sicherheitsvorrichtungen, wie Isolationsstege, Isolationspapiere, Abschirmungen und Isolations -R-C- Glieder wieder richtig eingesetzt sind.
- Wenn der Fernseher während längerer Zeit nicht in Betrieb gesetzt wird, sollte der Netzstecker aus der Netzsteckdose gezogen werden.
- 5. Im Betrieb sind Spannungen bis zu 29kV {27kV} in diesem Gerät vorhanden. Die Inbetriebnahme des Fernsehers ohne aufgesetzte Rückwand bringt die Gefahr eines elektrischen Schlages von der Fernseher Stromversorgung mit sich. Servicearbeiten solten daher auch nie durch Personen versucht werden, die nicht in vollem. Umfang mit den Sicherheitsvorkehrungen beim Umgang mit Hochspannungsgeräten vertraut sind. Vor der Handhabung mit der Bildröhre ist die Anode der Bildrohre immer an dem Empfängerchassis zu entladen.
- Nach Beenden der Servicearbeiten sind die folgenden Kriechstrom-Prüfungen durchzuführen, um den Kunden vor der Gefahr eines elektrischen Schlages zu schützen.

MESSUNG DES ISOLATIONSWIDERSTANDES IM ABGESCHALTETEN ZUSTAND

- Den Netsztecker aus der Netzsteckdose ziehen und die beiden Steckerstifte kurzschließen.
- 2. Den Geräteschalter des Fernsehgerätes einschalten.
- Mit einem Ohmmeter den Widerstandswert zwischen dem überbrückten Netzkabelsteckerund jendem zugänglichen Metallteil am Gehäuse des Fernsehgerätes, wie Schraubenköpfe, Antennen, Achsen der Regler, Griffassungen usw.messen. Wenn ein zugängliches Metallteil keine Rückleitung zum Chassis hat, Muß die Anzeige unendlich betrgen.

LEAKAGE CURRENT HOT CHECK

- Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
- 2. Connect a $2k\Omega$ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
- 3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.
- Check each exposed metallic part and check the voltage at each point.
- Reverse the a.c. plug at the outlet and repeat each of the above measurements.
- The potential at any point should not exceed 1,4 V
 rms. In case a measurement is outside the limits
 specified, there is a possibility of a shock hazard, and
 the receiver should be repaired and rechecked before
 it is returned to the customer.

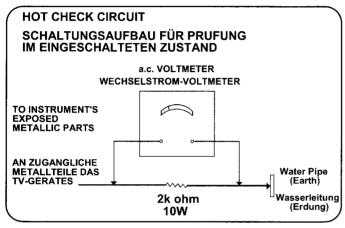


Fig. 1 Abb. 1

X-RADIATION WARNING

- 1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
- When using a picture tube test jig for service, ensure that the jig is capable of handling 29kV {27kV} without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

- 1. Set the brightness to minimum.
- Measure the high voltage. The meter should indicate: 28kV ± 1kV {26kV ±1kV}. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
- To prevent any X-Radiation possibility, it is essential to use the specified tube.

MESSUNG DES KRIECHSTROMS IM EINGESCHALTETEN ZUSTAND

- Den Netzstecker direkt in eine Netsteckdose stecken. Für diese Messung keinen Trenntransformator verwenden.
- Einen 2kΩ / 10W-Widerstand in Serie mit einem von außen zugänglichen Metallteil am Fernsehgerät und einer guten, Erdung z.B Wasserleitung, anschließen.
- Ein Wechselstrom-Voltmeter mit einem Meßbereich von 1000 Ohm.Volt oder größer verwenden, um die Spannung über den Widerstand zu messen.
- 4. Jedes zugängliche Metallteil prüfen, und an jedem Punkt dies Spannung messen.
- Den Netztecker umgekehrt in die Steckdose stecken und jede der obigen Messungen wiederholen.
- Die Spannung darf an keinem der Punkte 1,4V eff. überschreiten. Wird dieser Wert nicht eingehalten, besteht die Gefar eines elektrischen Schlages, und das Fernsehgerät sollte daher repariert und nachgeprüft werden, bevor es an den Kunden zurückgegeben wird.

RÖNTGENSTRAHLUNG ACHTUNG:

- Potentielle Quellen von Röntgenstrahlung in Fernsehgeräten sind das Hochspannungsteil und die Bildröhre
- Bei Verwendung eines Bildröhren-Prüfgerätes für den Service ist sicherzustellen, daß es für die Belastung von 29kV {27kV} geeignet ist, ohne daß eine Röntgenstrahlung verursacht wird.

ANMERKUNG: Es ist wichtig, daß ein präzises, regelmäßig geprüftes Voltmeter verwendet wird.

- Helligkeit auf Minimum stellen.
- Die Hochspannung messen. Die Anzeige des Instrumentes sollte: 28kV ± 1kV {26kV ±1kV}.
 Falls die Anziege diese Toleranzgrenzen überschreitet, ist die sofortige Behebung nötig, um die Möglichkeit vorzeitigen Komponentenausfalls zu verhüten.
- Um die Möglichkeit von Röntgenstrahlung zu begrenzen, ist es wichtig, daß nur die vorgeschriebene Bildröhre verwendet wird.

SERVICE HINTS

HOW TO REMOVE THE REAR COVER

1. Remove the 8 screws as shown in Fig. 2.

SERVICE HINWEISE

ENTFERNEN DER GERÄTERÜCKWAND

1. Die 8 Schrauben entfernen, siehe Abb. 2.

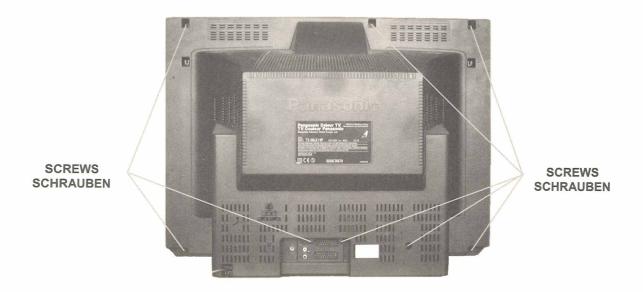


Fig. 2 Abb. 2

LOCATION OF CONTROLS

LAGE DER EINSTELLREGLER

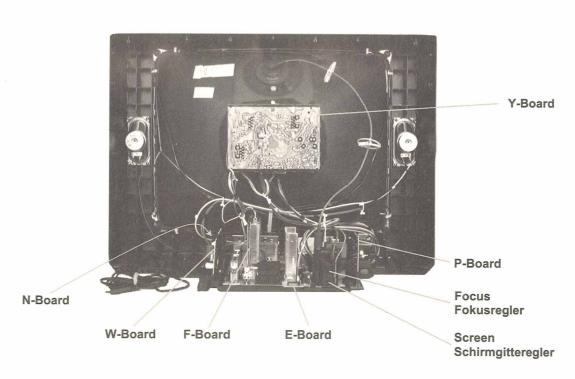


Fig. 3 Abb. 3

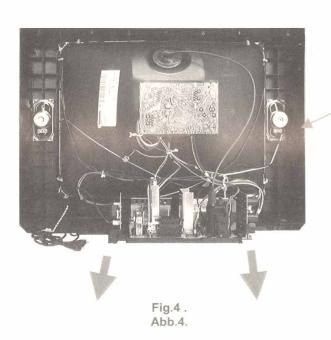
HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

- 1. Remove the bead clamper from the mains lead.
- Hold and lift the rear of the chassis and gently pull the chassis towards you, as shown in Fig.4.
- Release the respective wiring clips and rotate the chassis horizontally through 90° anti-clockwise and elevate the front of the chassis.
- Using the rib (A), as shown Fig .5., locate the chassis to position Fig .6.
- After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.

SERVICE POSITION FÜR DAS CHASSIS

(A)

- 1. Beseitigen sie das Festklemmen der Hauptleiter.
- Ergreifen sie den Hinterteil von Chassis und ziehen sie leicht das Chassis in der Richtung zu Ihnen Abb. 4.
- Lösen sie die Klemmen von einschlägigen Leitern (Dräten) und drehen sie das Chassis horizontal um 90° gegen Uhrzeigersinn, dann heben sie den Vorderteil von Chassis nach oben.
- 4. Mit der Hilfe der Rippe (A), Abb.5., plazieren sie das Chassis in die Lage auf dem Abb.6..
- Vor Rückgabe von TV an den Kunden versichen sie, dass alle Leiter in ihre ursprünglichen Positionen zurückgebracht werden.



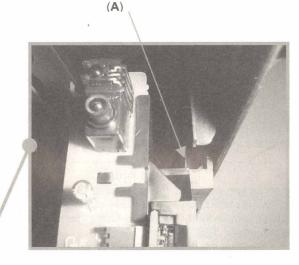


Fig.5. Abb.5.

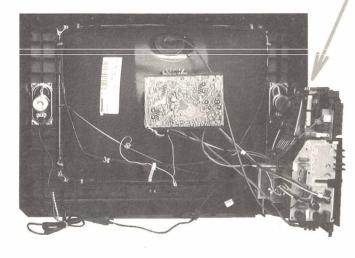


Fig. 6. Abb.6.

SELF CHECK

- Self-check is used to automatically check the bus lines and hexadecimal code of the TV set.
- To get into the Self-Check mode press the down (-/v) button on the customer controls at the front of the set, at the same time pressing the STATUS button on the remote control, and the screen will show:

SELBSTDIAGNOSE

- Die Selbstdiagnose dient zum automatischen Prüfen der Bus-Leitungen sowie des Hexadezimalcodes des FS-Geräts. Zum Umschalten auf Selbstdiagnose zunächst die Taste "STATUS" auf der Fernbedienung und gleichzeitig die-Taste am Bedienteil des FS-Gerätes drücken (-/v), auf dem Bildschirm erscheint hierauf :-
- Nach der Selbstdiagnose wird das Gerät automatisch auf sämtliche werksseitigen Standardeinstellungen zurückgesetzt:

	VPC CIP SRC DDP TUN E2 MSP DPL	O.K. O.K. O.K. O.K. O.K. O.K.		PCB CAB	O.K. O.K.	
	OPTION1	39	[39]	{39}		
	OPTION2	1C	[1C]	{1C}		
	OPTION3	0F	[0F]	{0F}		
	OPTION4	00	[00]	{00}		
	OPTION5	ED	[CD]	{ED}		
	OPTION6	A 5	[A5]	{A1}		
\						/

If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.". Wenn der Hauptprozesser (CCU) an den Anschlüssen einen Fehler erkennt, oder der entsprechende Anschlüss nicht belegt ist, zeigt die entsprechende Position " - - " anstelle von OK an.

Service Aids

To aid in the service of our current chassis there are a number of Service Aids which have been made available.

- LUCI interface kit (Linked Utility Computer Interface)
 Part number: TZS6EZ002
 This contains interface and cables for connecting TV service connector and a PC as well as diagnostic software. As new models are introduced upgrade software will become available.
- VICI (Visual Interactive Computer Information)
 These C.D.'s contain multimedia documentation providing quick access to service information.
 Part No.

TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001

- 1. Service Manuals
- 2. Instruction Books
- 3. Technical Information
- TASMIN (Technically Advanced System for Multimedia Interactive Notes)

As well as providing a first step towards more interactive training this product also achieves quick access to Technical Information.

Service-Hilfen

Zur Unterstützung der Servicearbeiten stehen weitere Hilfsmittel zur Verfügung.

- LUCI interface kit (PC-unterstützes Diagnosesystem)
 Bestell-Nr.: TZS6EZ002
 Es beinhaltet ein Interface, die Anschlusskabel zum FS-Gerät und die Diagnose-Software. Bei Einführung von neuen Modellen ist ein Update der Software jederzeit möglich.
- VICI (Interaktive CD-ROM) mit schnellem Zugiff auf Serviceinformationen.

Bestell-Nr.:

TZS7EZ006, TZS7EZ005, TZS8EZ001 & TZS9EZ001

- 1. Service Manuals
- 2. Bedienungsanleitungen
- 3. Technical Information
- TASMIN (Technisch erweitertes System für interaktive Multimedia-Hinweise und Notizen)
 Genauso wie dieses Produkt einen ersten Schritt in Richtung erweitertes interaktives Training bereitstellt, ermöglicht es einen noch schnelleren Zugang zu technischen Informationen.

ADJUSTMENT PROCEDURE

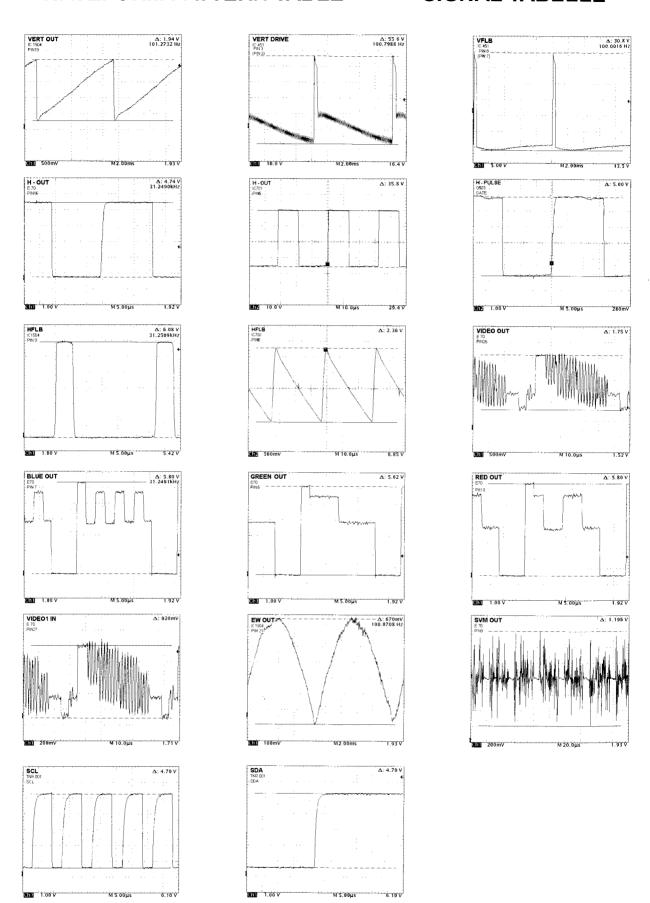
	Item/Preparation	Adjustments							
-	+B SET-UP	Confirm the following voltages.							
1.	Receive a Greyscale signal.		B2	148	±	2V	B10	$5,25 \pm$	0,25V
2.	Set the controls:-		B9	5	±	0,25V	B11	33 ±	1,5V
	Brightness: Minimum		B5	12	±	0,5V	B7	8 ±	0,5V
	3		B4	16	±	1V	B8	6 ±	1V
	Contrast: Minimum		B12	26	±	2V	B13	13,5 ±	1V
				{28	±	2V}		{16,5±	1V}
	Volume: Minimum		B 3	36	±	1,5V	B14	-14 ±	1V
			B1	205	±	10V		{-10 ±	1V}
	Cut-Off / Ug2 Test	To adjust Cutoff connect an oscilloscope to the Blue							
1.	Receive a Greyscale signal.	cat	hode.Pr	ess "S	STR	t" and adjust	"cutoff	" value u	sing the
2.	Degauss the tube externally.	"Ye	ellow" a	nd " B l	ue"	buttons unt	il the bl	ack level	is
3.	Set the TV into Service Mode 1.	160)V ± 5V,	, press	s "S	TR" to store	the val	ue.	
4.	Select Cutoff mode.	Rei	move th	e osci	llos	cope.			
		Select Ug2 adjustment and adjust the screen VR until the							R until the
		dis	play sho	ows "C).K.	11			

ABGLEICH

	Vorbereitungen	Abgleich									
	+B - Abgleich	Folgende Spannungen sind zu überprüfen.									
1.	Testbild empfangen.		B2	148	±	2V	B10	$5,25 \pm$	0,25V		
	Helligkeit auf: Minimum		B9	5	±	0,25V	B11	33 ±	1,5V		
	•		B 5	12	±	0,5V	B7	8 ±	0,5V		
	Kontrast auf: Minimum		B4	16	±	1V	B8	6 ±	1V		
			B12	26	±	2V	B13	13,5 ±	1V		
	Lautstärke: Minimum	-		{28	±	2V}		{16,5±	1V}		
			B3	36	±	1,5V	B14	-14 ±	1V		
			B1	205	±	10V		{-10 ±	1V}		
	Cut-Off / Ug2 Test	Einen Oszillographen an die blaue Katode der Bildröhre							Bildröhre		
1.	Testbild empfangen.	anschliessen. STR-Taste drücken und Mit der gelben							elben		
2.	Bildröhre entmagnetisieren.	une	d blaue	n Tast	e d	en CUT-O	FF Wert a	auf 160\	/ ± 5V		
3.	Service-Mode 1 anwählen.	abgleichen und mit der STR-Taste abspeichern. Den							. Den		
4.	Im Service-Mode den Abgleichpunkt Cutoff DC-Mode	Oszillograph entfernen und den Ug2 Test aufrufen. Den							en. Den		
	wählen.	Abgleichwert solange ändern, bis OK auf dem Bildschirm erscheint. Den Wert abspeichern.						Bildschirm			

WAVEFORM PATTERN TABLE

SIGNAL TABELLE



ALIGNMENT SETTINGS:

(The figures below are nominal and used for representative purposes only.)

- 1. Set the Bass to maximum position, set the Treble to minimum position, set the Volume to minimum then press the down button (-/v) on the customer controls at the front of the TV and at the same time press the INDEX button on the remote control, this will place the TV into the Service Mode.
- 2. Press the **RED / GREEN** buttons to step up / down through the functions.
- 3. Press the YELLOW / BLUE buttons to alter the function values.
- 4. Press the STR button after each adjustment has been made to store the required values.
- 5. To exit the Service Mode, press the "N" button.

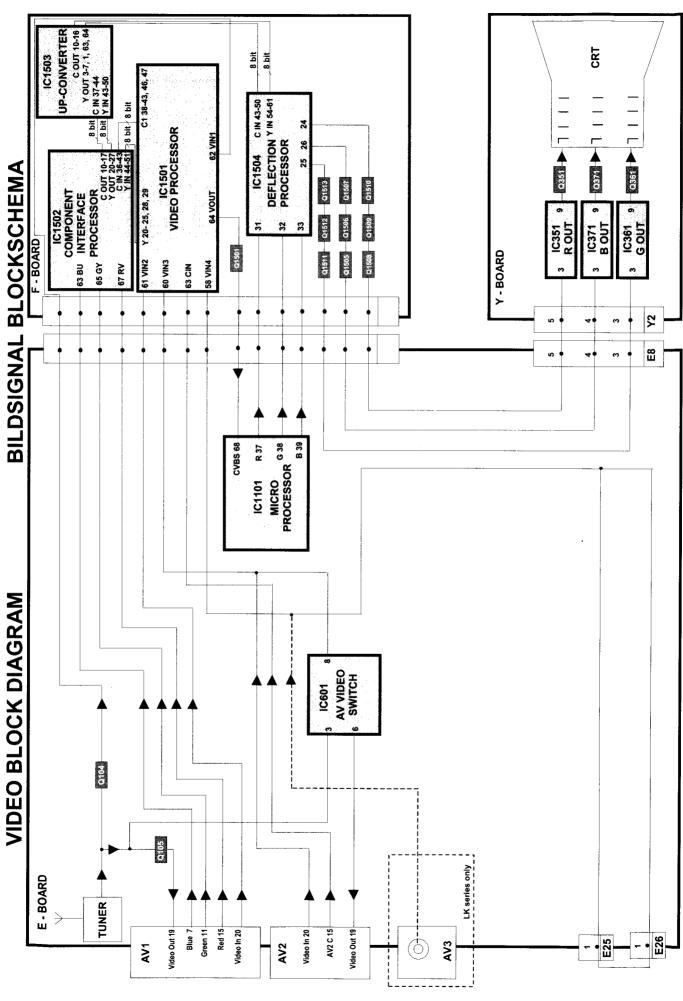
Alignment Function		Settings / Special features
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V- Amp 054	Optimum setting.
EW-amplitude	EW-Amp1 - 030	Optimum setting.
Lower corner	Lower corner 007	Optimum setting.
Trapezium-comp	Trapez 1 047	Optimum setting.
Upper corner	Upper corner 006	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
Angle	Angle 000	Optimum setting.
Bow	Bow 005	Optimum setting.
DVCO	DVCO - 005	Receive a PAL Colour Bar Pattern. For DVCO alignment press "Blue" button, wait until the colours are changing slowly and press "STR".
Cut-off DC	Cut-off 0171	To adjust Cutoff connect an oscilloscope to the blue cathode, adjust "cutoff" value using the "Yellow" and "Blue" buttons until
Ug2 Test	Ug2 0155 O.K.	the black level is 160V ± 5V press "STR" to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K." Black Level 160V ± 5V GND
Highlight Lowlight	High 0396 0357 0374 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 000	Optimum setting.

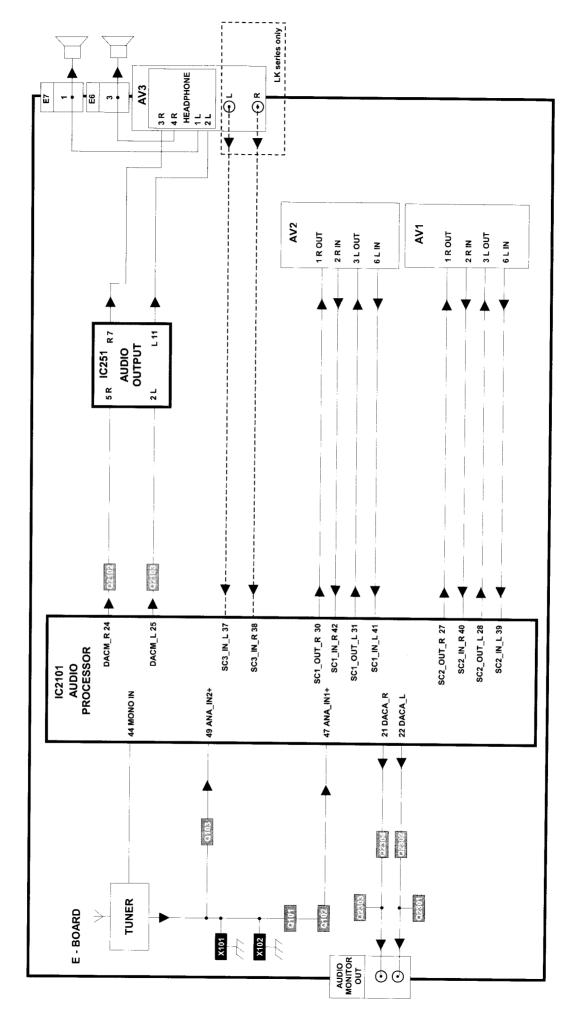
ABGLEICHTABELLE

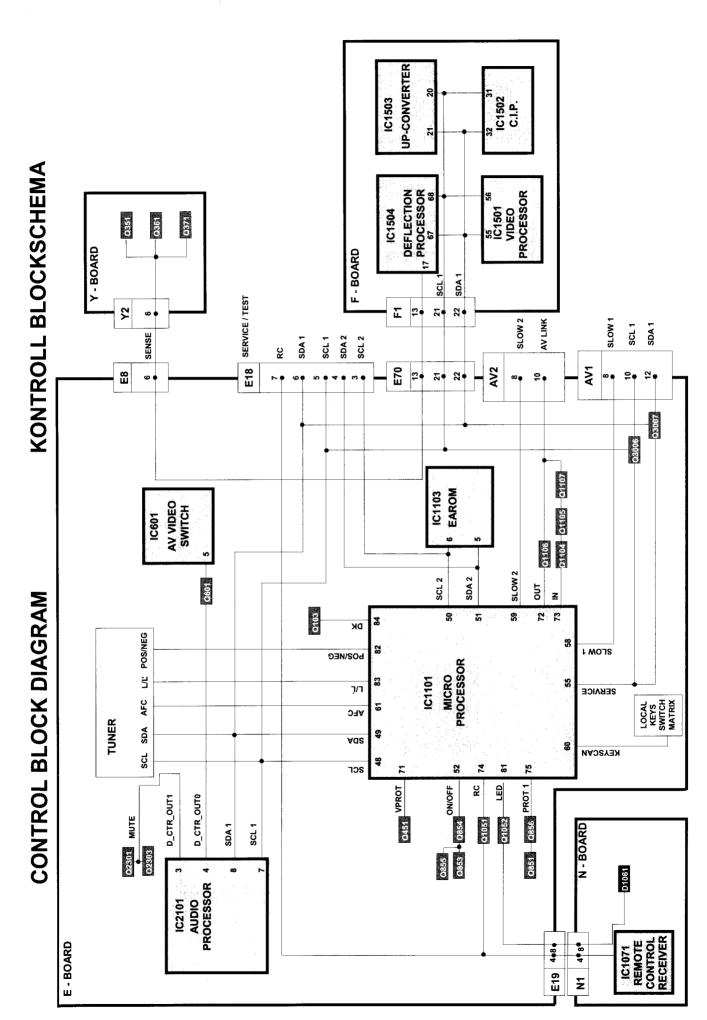
(Die angegebenen Werte sind Mittelwerte und Können individuell nach oben oder unten nach dem korrekten Abgleich abweichen.)

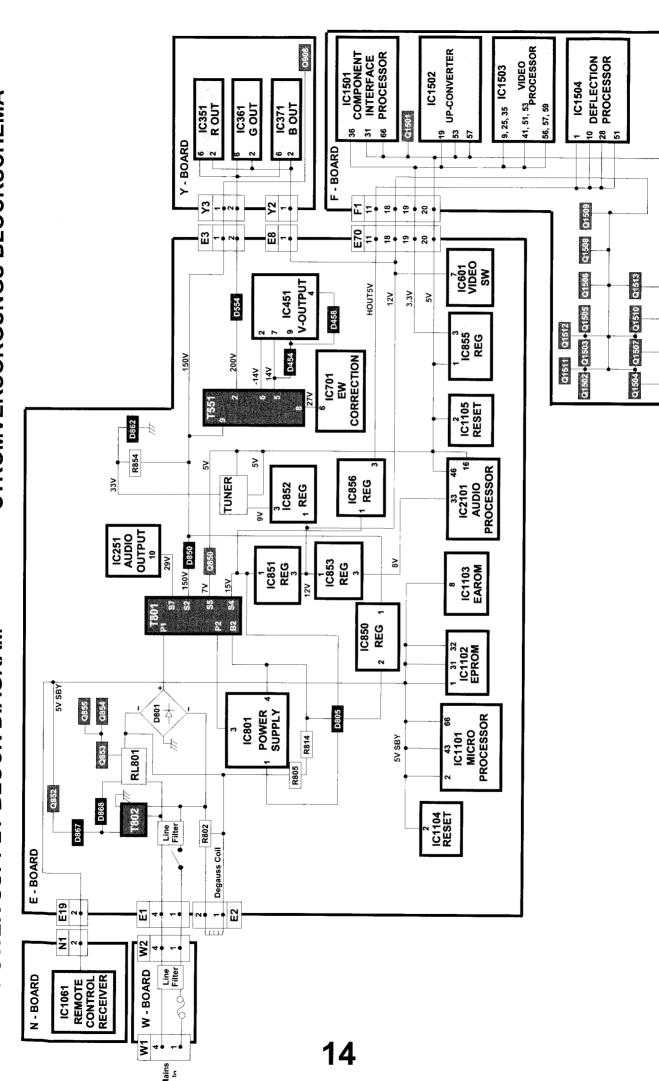
- 1. Um in den Service-Mode zu gelangen, gehen sie bitte wie folgt vor.
- 2. Stellen sie im Toneinstellungs-Menü die Bässe auf Maximun, die Höhen auf Minimum und die Lautstärke auf Minimum.
- 3. Halten sie die **INDEX**-Taste auf der Fernbedienung gedrückt und drücken zusätzlich die Taste -/v im Bedienteil des TV-Gerätes. Auf dem Bildschirm erscheint die entsprechende Anzeige für den Service-Mode.
- 4. Die einzelnen Funktionen mit Hilfe der ROTEN und GRÜNEN Taste anwählen.
- 5. Mit der GELBEN und BLAUEN Taste die Werte der einzelnen Funktionen ändern.
- 6. Nach jeder Einstellung die Taste STR auf der Fernbedienung drücken, um die geänderten Werte abzuspeichern.
- 7. Zum Verlassen des Service-Modus die "N" Taste auf der Fernbedienung drücken.

Abgleichfunktion		Einstellung / Besondere Merkmale
Horizontale position	H-Pos 061	Optimale Einstellung.
Vertikale Position	V-Pos 005	Optimale Einstellung.
Horizontale Amplitude	H-Amp 055	Optimale Einstellung.
Vertikale Amplitude	V-Amp 054	Optimale Einstellung.
OW-amplitude	EW-Amp1 - 030	Optimale Einstellung.
Lower corner	Lower corner 007	Optimale Einstellung.
Trapez-Kompensation	. Trapez 1 047	Optimale Einstellung.
Upper corner	Upper corner 006	Optimale Einstellung.
Vertikale linearität	V-Lin 006	Optimale Einstellung.
Vertikale Symmetrie	V-Sym 002	Optimale Einstellung.
Angle	Angle 000	Optimale Einstellung.
Bow	Bow 005	Optimale Einstellung.
DVCO	DVCO - 005	Ein Farbbalken-Testbild empfangen. Zum Abgleich des Farboszillators (DVCO) die blau Taste drücken. Nachdem ein leichtes Flackern in den Farbbalken zum Stillstand gekommen ist, die STR-Taste drücken.
Cut-off	Cut-off 0171	Einen Oszillographen an die blaue Katode der Bildröhre anschliessen. STR -Taste
Ug2 Test	Ug2 0155 O.K.	drücken und Mit der gelben und blauen Taste den CUT-OFF Wert auf 160V ± 5V abgleichen und mit der STR-Taste abspeichern. Den Oszillograph entfernen und den Ug2 Test aufrufen. Den Abgleichwert solange ändern, bis OK auf dem Bildschirm erscheint. Den Wert abspeichern. Black Level 160V ± 5V GND
Highlight Lowlight	High 0396 0357 0374 Low 0117 0132 0112	Optimale Einstellung.
Sub-Brightness	Sub-Brightness 000	Optimale Einstellung.



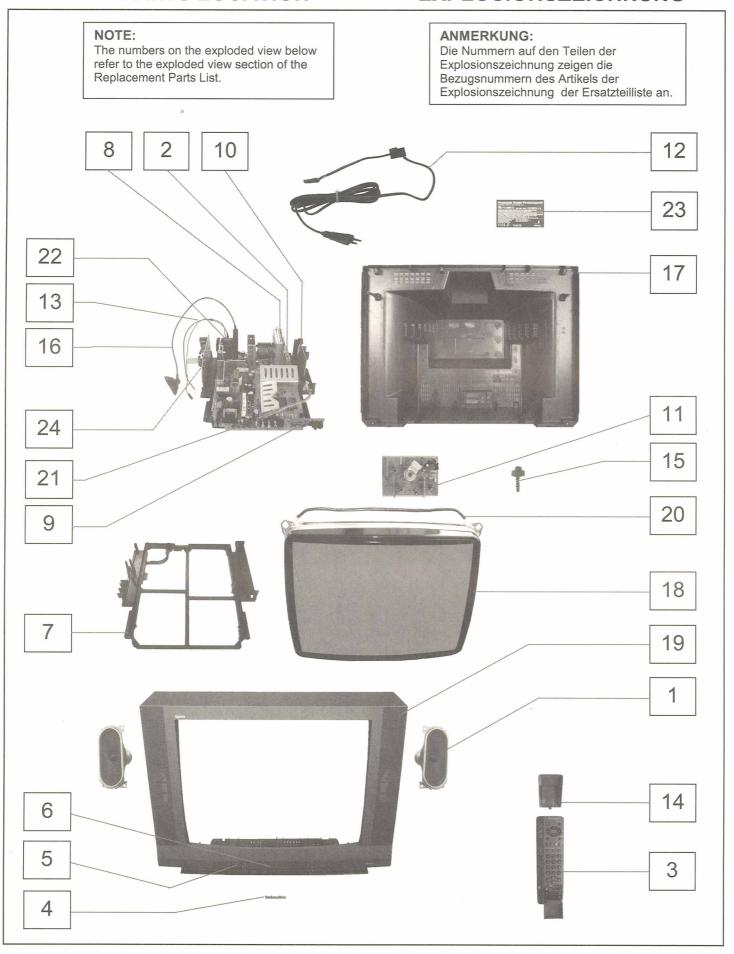






PARTS LOCATION

EXPLOSIONSZEICHNUNG



REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by $ilde{\mathbb{A}}$ mark have special characteristics important for safety.

When replacing any of these components, use only manufacturers specified parts.

* In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref Parts Number Description **COMMON PARTS EXPLODED VIEW** EASG12D531R2 **SPEAKER** 1 TUNER ENG29505GR 2 REMOTE CONTROL 3 EUR511211 PANASONIC BADGE TRM8F1928 Δ TBX8E083 POWER BUTTON 5 DOOR LID 6 TKP8E1322 CHASSIS FRAME TMX8F042-2 FP.C.B. TNP8FF007AD R Α N P.C.B. TNP8EN016AF 9 Δ TNP8EW002AB WPCB 10 Δ Y P.C.B. TNP8EY018AG Δ POWER CORD TXASX01CJNG1 12 A **FOCUS LEAD ASSY** TXJ/FC0DEG 13 BATTERY COVER (REMOTE) UR51EC904A 14 **CRT FIXING SCREW** VP17005-32 15 ANODE LEAD Δ ZTUZAE550A 16 **MISCELLANEOUS COMPONENTS** LID CATCH TEK6940 POWER BUTTON SPRING TES8E015 LED WINDOW TKP8E1321 TMW8E027 LED HOLDER BATTERY PACK UM-3DJ-2P 84 PIN IC SOCKET PLCC-84-T IC1101S PCB BRACKET PCH2 TMX8E041 TMX8E041 PCB BRACKET PCH₃ I.C.s AUDIO OUTPUT IC251 LA4282 **RGB OUTPUT** TDA6101Q/N3 IC351 **RGB OUTPUT** TDA6101Q/N3 IC361 **RGB OUTPUT** IC371 TDA6101Q/N3 IC381 TL431CLPM REGULATOR VIDEO SWITCHING IC601 TEA2114 E/W CORRECTION IC701 TEA2031A STRF6654LF57 IC801 POWER SUPPLY IC850 SE140NLF4 FRROR IC 12V REGULATOR IC851 AN7812LB1 AN78M09LB1 9V REGULATOR IC852 **8V REGULATOR** IC853 AN78L08TA IC855 BA033T-M3 REGULATOR **5V REGULATOR** IC856 AN7805LB IC1071 RPM6937-V4 LED RECEIVER MICRO PROCESSOR IC1101 SDA5450C59 **FPROM** IC1102 M27C200110F1 RESET MN1381-R(TA) IC1104

ERSATZTEILLISTE

Wichtiger Sicherhitshinweis

Teile, die mit einen Hinweis A gekennzeichnet sind wichtig für die Sicherhet. Solite ein Auswechsein erfordelrich sein, sind unbdingt Originalteile einzusetzen.

Bei der Bestellung von Ersatzteilen, di mit * gekennzeichnet sind, geben Sie bitte unbedingt die vollständige Typenbezeicnung mit an.

Cct Ref	Parts Number	Description
IC1105	MN1381-T(TA)	RESET
IC1501	VPC3215CB8TP	VIDEO PROCESSOR
IC1502	CIP3250APSB1	C.I.P.
IC1503	SDA9401	MICRO PROCESSOR
IC1504	DDP3310BPSE4	VIDEO PROCESSOR
IC2101	MSP3410DPOC5	AUDIO PROCESSOR
FUSES	WIGH 5410D1 000	Albio I House and a second
F801	19181-3.15	FUSE
F801-1	EYF52BC	FUSE HOLDER
F801-2	EYF52BC	FUSE HOLDER
DIODES	ETF32BC	TOOL HOLDEN
	MA3020TX	DIODE
D101		DIODE
D102	MA3020TX	
D251	TYMD0002	DIODE
D253	MA700TA	DIODE
D254	MA700TA	DIODE
D351	ERA15-04V3	DIODE
D352	ERA15-04V3	DIODE
D361	ERA15-04V3	DIODE
D362	ERA15-04V3	DIODE
D371	ERA15-04V3	DIODE
D372	ERA15-04V3	DIODE
D376	1SS133T-77	DIODE
D377	1SS133T-77	DIODE
D378	1SS133T-77	DIODE
D387	MA2160LFS	DIODE
D453	1SS133T-77	DIODE
D454	EU02V0	DIODE
D457	1SS133T-77	DIODE
D501	1SS133T-77	DIODE
D502	1SR124-4AT82	DIODE
D511	MA4047MTA	DIODE
D553	1SR124-4AT82	DIODE
D554	1SR124-4AT82	DIODE
D556	1SS133T-77	DIODE
D557	TVSRU2AMLFA1	DIODE
D558	EU02V0	DIODE
D560	RH3GLF102	DIODE
D580	FMV-3GULF730	DIODE
D601	1SS133T-77	DIODE
D601	1SS133T-77	DIODE
i	1SS133T-77	DIODE
D603		DIODE
D604	1SS133T-77	DIODE
D609	1SR124-4AT82	
D620	1SS133T-77	DIODE
D701	1SS133T-77	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29T-BTA	DIODE
D705	MTZJT776.2B	DIODE
D706	MA165TA5VT	DIODE
D707	AU02V0	DIODE
D708	1SS133T-77	DIODE

Cct Ref	Parts Number	Description		Cct Ref	Parts Number	Description
D709	MTZJT-778.2C	DIODE		Q361	TYMQ0002	TRANSISTOR
D710	MTZJT-7716C	DIODE		Q371	TYMQ0002	TRANSISTOR
D801	RBV-608LF-B	DIODE		Q451	BC857B	TRANSISTOR
D803	1SR124-4AT82	DIODE		Q503	2SK2962TPE6	TRANSISTOR
D804	1SR124-4AT82	DIODE		Q551	2SC5144LB228	TRANSISTOR
D805	SFH617A-20P6	PHOTO COUPLER A		Q552	2SC1473ATA	TRANSISTOR
D806	1SR124-4AT82	DIODE		Q601	BC847B	TRANSISTOR
D850	RU4BLF-L1	DIODE		Q701	BC857B	TRANSISTOR
D851	MTZJT776.2B	DIODE		Q701 Q702	BC847B	TRANSISTOR
D852	1SS133T-77	DIODE		Q702 Q703	IRF644R-M3S	TRANSISTOR
D853	TYMD0002	DIODE		Q765 Q850	2SD2396K-M3	TRANSISTOR
D854	S3L20U04P15	DIODE		Q850 Q851	BC857B	
D855		DIODE				TRANSISTOR
	D10SC6MRL			Q852	2SD1858TV2	TRANSISTOR
D856	RU4AMLF-M1	DIODE		Q853	BC847B	TRANSISTOR
D857	MTZJT-775.1A	DIODE		Q854	BC847B	TRANSISTOR
D858	1SS133T-77	DIODE		Q855	BC847B	TRANSISTOR
D859	1SS133T-77	DIODE		Q856	BC847B	TRANSISTOR
D860	1SS133T-77	DIODE		Q857	2SA1018QTA	TRANSISTOR
D861	1SS133T-77	DIODE		Q905	BC847B	TRANSISTOR
D862	MTZJT-7736A	DIODE		Q906	BC847B	TRANSISTOR
D863	1SS133T-77	DIODE		Q907	BC857B	TRANSISTOR
D864	1SS133T-77	DIODE		Q908	2SA1535ARLB	TRANSISTOR
D865	1SS133T-77	DIODE		Q909	2SC3944ARLB	TRANSISTOR
D866	1SS133T-77	DIODE		Q1051	BC847B	TRANSISTOR
D867	EK06-V0	DIODE		Q1052	BC847B	TRANSISTOR
D868	1N4150T-77	DIODE	1	Q1104	BC847B	TRANSISTOR
D869	1N4150T-77	DIODE		Q1105	BC847B	TRANSISTOR
D870	1SS133T-77	DIODE		Q1106	BC847B	TRANSISTOR
D871	1N4150T-77	DIODE		Q1107	BC847B	TRANSISTOR
D873	MTZJT-775.6C	DIODE		Q1108	BC847B	TRANSISTOR
D874	1SR124-4AT82	DIODE		Q1501	BC847B	TRANSISTOR
D875	BZX79A75A26A	DIODE		Q1502	BC857B	TRANSISTOR
D890	1\$\$133T-77	DIODE		Q1503	BC847B	TRANSISTOR
D891	1SS133T-77	DIODE		Q1504	BC847B	TRANSISTOR
D901	1SS254T-77	DIODE		Q1505	BC857B	TRANSISTOR
D902	1SS254T-77	DIODE		Q1506	BC847B	TRANSISTOR
D903	1SS254T-77	DIODE		Q1507	BC847B	TRANSISTOR
D907	1SS133T-77	DIODE		Q1508	BC857B	TRANSISTOR
D910	R2KNLFA1	DIODE		Q1509	BC847B	TRANSISTOR
D1071	SLR56UR3FS	LED		Q1510	BC847B	TRANSISTOR
D1072	MTZJT-778.2C	DIODE		Q1511	BC857B	TRANSISTOR
D1101	1SS133T-77	DIODE		Q1512	BC847B	TRANSISTOR
D1131	MTZJT-775.6C	DIODE	:	Q1513	BC847B	TRANSISTOR
D2101	MA723TA5	DIODE		Q1514	BC847B	TRANSISTOR
D2102	MA723TA5	DIODE		Q1515	BC847B	TRANSISTOR
D2103	MA723TA5	DIODE		Q2101	BC857B	TRANSISTOR
D2104	MA723TA5	DIODE		Q2101 Q2102	BC857B	TRANSISTOR
D2105	MTZJT-778.2C	DIODE		Q2102 Q2103	BC857B	TRANSISTOR
D2303	MA723TA5	DIODE		Q2301	BC847B	TRANSISTOR
D2304	MA723TA5	DIODE		Q2301 Q2302	BC857B	TRANSISTOR
D3351	1SS254T-77	DIODE		Q2302 Q2303	BC847B	TRANSISTOR
D3352	1SS133T-77	DIODE		Q2303	BC857B	TRANSISTOR
D3353	1SS1331-77	DIODE		Q2304 Q3006	BC847B	TRANSISTOR
D3354		DIODE				
R802	1SS133T-77 232266296706	THERMISTOR		Q3007 Q3352	BC847B BC857B	TRANSISTOR TRANSISTOR
		THERWISTOR				TRANSISTOR
TRANSI					ORMERS	
Q101	BC847B	TRANSISTOR		T501	ETH19Y193AY	TRANSFORMER
Q102	BC847B	TRANSISTOR		T801	ETS42AE296AD	TRANSFORMER A
Q103	BC847B	TRANSISTOR		T802	ETP35KAN619U	TRANSFORMER A
Q104	BC847B	TRANSISTOR		COILS		
Q105	BC847B	TRANSISTOR		J212	EXCELSA35V	COIL
Q251	2SD1328STX	TRANSISTOR		L101	TLT100K991R	COIL
Q252	2SD1328STX	TRANSISTOR		L102	TLT100K991R TLT068K991R	COIL
Q253	BC847B	TRANSISTOR		L102	EXCELSA35B	COIL
Q254	BC847B	TRANSISTOR		L103	TLTACT4R7K	COIL
Q351	TYMQ0002	TRANSISTOR		L104 L105	TLTACT4K/K	COIL
				2,55	.EIMOINTIN	JOIL
		•				•

Cat Bof	Darte Number	Description	Cot Bof	Dorto Number	Description			
Cct Ref	Parts Number	Description	Cct Ref		Description			
L106	TLTACT100K	COIL	X1502	4730007341	CRYSTAL			
L107	TLTACT6R8K	COIL	X2101	4730007158	CRYSTAL			
L114	ELJFC2R2KF	COIL	RESIST	rors				
L115	ELJFC2R2KF	COIL	C510	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L301	TLTACT4R7K	COIL	JA1	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L381	TLT220K991R	COIL	JA2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L382	ELESN6R8KA	COIL	JA3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L451	EXCELSA35T	COIL	JA4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L501	EXCELSA35T	COIL	JA5	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L586	EXCELDR35C	COIL	JA6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L606	ELESN100KA	COIL	JA7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L701	ELC18B271E	COIL	JA8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L704	ELC10D332E	COIL	JA9	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L705	EXCELDR35V	COIL	JA10	ERJ6GEY0R00				i
L850	EXCELSA35T	COIL	JA10 JA12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ΩΩ
L851	EXCELSA35T	COIL	JA12		S.M.CARB	0.1W	5%	ΩΩ
L852	ELEIE470KA	COIL		ERJ6GEY0R00	S.M.CARB	0.1W	5%	ΩΩ
L855	EXCELSA35T	COIL	JA14	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ΩΩ
L856	EXCELSA39V	COIL	JA15	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ΩΩ
L910	EXCELSA35T	COIL	JA16	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L911	EXCELSA35T	COIL	JA17	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L912	EXCELSA35T	COIL	JA18	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1103	TLTACT100K	COIL	JA19	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1104	EXCELSA35T	COIL	JA20	ERJ6GEY0R00	S.M.CARB	0.1 W	5%	0 Ω
L1105	ELJFC2R2KF	COIL	∮ JA101	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1501	ELESN2R2KA	COIL	JA102	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1501	ELESN2R2KA	COIL	JA103	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1502	ELESN2R2KA	COIL	JA104	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1503	ELESN2R2KA	COIL	JA105	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
		COIL	JA106	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1505	ELESN100KA		JA107	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1506	ELESN100KA	COIL	JA108	ERJ8GEY0R00	S.M.CARB	.125W	5%	Ω Ο
L1507	ELESNR22KA	COIL	JA109	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
L1508	ELESNR22KA	COIL	JA110	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
L1509	ELESN100KA	COIL	JA111	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
L1510	ELESN100KA	COIL	JA112	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1514	ELESN100KA	COIL	JA113	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1515	ELESNR39KA	COIL	JA114	ERJ8GEY0R00	S.M.CARB	.125W	5%	ο Ω
L1516	ELESN4R7KA	COIL	JA115	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1517	ELESN4R7KA	COIL	JA116	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1518	ELESN4R7KA	COIL	JA117	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1519	ELESNR39KA	COIL	JA118	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1520	ELESN2R2KA	COIL	JA119	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
L1521	ELESN1R0KA	COIL	JA201	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1522	ELESN2R2KA	COIL	JA202	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L1523	ELESN2R2KA	COIL	JSE3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1524	ELESN2R2KA	COIL	JSE4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
L1525	ELESN100KA	COIL	JSE5	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L1526	ELESN100KA	COIL	JSE6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L1527	ELESN100KA	COIL	JSE10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0Ω
L1528	ELESN100KA	COIL	JSE12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L1529	ELESN100KA	COIL	JSE13	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
L2101	TLTACT100K	COIL	JSE18	ERJ6GEY0R00	S.M.CARB	0.1W	5% 5%	ΩΟ
L2103	EXCELSA35T	COIL	JSE16	ERJ6GEY0R00	S.M.CARB	0.1W	5% 5%	ο Ω
L2104	TLTACT4R7K	COIL	JSE33	ERJ6GEY0R00	S.M.CARB	0.1W	5% 5%	ο Ω
L3001	ELEMV1R5MA	COIL	JSE35	ERJ6GEY0R00				ο Ω
L3002	ELEMV1R5MA	COIL			S.M.CARB	0.1W	5% 5%	
L3003	ELEMV1R5MA	COIL	JSE42	ERJ6GEY0R00	S.M.CARB	0.1W	5% 5%	ΩΟ
L3004	ELEMV1R5MA	COIL	JSE43	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ΩΟ
FILTERS			JSE45	ERJ8GEY0R00		.125W	5%	0 Ω
		LINE OF TOO	JSE46	ERJ8GEY0R00		.125W	5%	ΩΩ
L802	ELF18N012A	LINE FILTER	JSE47	ERJ8GEY0R00		.125W	5%	Ω Ω
L804	ELF18N012A	LINE FILTER	JSF1	ERJ8GEY0R00		.125W	5%	ΩΟ
X101	EFCT6504BF	FILTER	JSF2	ERJ8GEY0R00		.125W	5%	ΩΟ
X102	EFCT7004BN	CERAMIC FILTER	JSF3	ERJ8GEY0R00		.125W	5%	0Ω
CRYSTA	LS	!	JSY04	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
X1101	AI060006AD	CRYSTAL	R101	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
X1501	4730007267	CRYSTAL	R102	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω

Cct Ref	Parts Number	Description				Cct Ref	Parts Number	Description			
R103	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1Κ Ω	R463	ERDS2TJ222T	CARBON	0.5W	5%	2Κ2 Ω
R104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	R464	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6Κ8 Ω
R105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	R467	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
R106	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω	R502	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
R107	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	R503	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R108	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R507	ERG2ANJP330H	METAL	2W	5%	33 Ω
R109	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R509	ERG1SJ222E	METAL	0.5W	5%	2Κ2 Ω
R110	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	R510	ERG1SJ222E	METAL	0.5W	5%	2Κ2 Ω
R111	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	R551	ERX3SJSR33H	METAL	3W	5%	R33 Ω
R112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	R558	ERDS1TJ124T	CARBON	0.5W	5%	120K Ω
R113	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22 K Ω	R560	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270Κ Ω
R116	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5 K 6 Ω	R561	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22Κ Ω
R117	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2Κ2 Ω	R563	ERJ6GEYJ824	S.M.CARB	0.1W	5%	820K Ω
R118	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	R564	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R121	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	R566	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R251	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	R567	ERF7ZK1R0	WOUND	7W	10%	1Ω
R252	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2Κ7 Ω	R568	ERDS1TJ120T	CARBON	0.5W	5%	12 Ω
R253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R581	ERQ2CJP821S	METAL	2W	5%	820 Ω
R254	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	R582	ERG3FJ471H	METAL	3W	5%	470 Ω
R255	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	[!] R583	ERG3FJ331H	METAL	3W 0.1W	5% 5%	330 Ω 22 K Ω
R256	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	R603	ERJ6GEYJ223	S.M.CARB	0.1VV	5% 5%	100 Ω
R257	ERJ6GEYJ270	S.M.CARB	0.1W	5%	27 Ω	R604 R605	ERJ6GEYJ101 ERJ6GEYJ101	S.M.CARB S.M.CARB	0.1 V V	5%	100 Ω
R258	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	R606	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R259	ERJ6GEYJ270	S.M.CARB	0.1W 0.1W	5% 5%	27 Ω 10 K Ω	R607	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω
R260	ERJ6GEYJ103 ERJ6GEYJ471	S.M.CARB S.M.CARB	0.1W	5% 5%	470 Ω	R608	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200 Ω
R261 R262	ERJ6GEYJ103	S.M.CARB	0.1 V V	5%	470 Ω 10K Ω	R609	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200 Ω
R263	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	R610	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2Κ4 Ω
R264	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R611	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R265	ERDS2TJ2R2T	CARBON	0.25W	5%	2R2 Ω	R612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R266	ERDS2TJ2R2T	CARBON	0.25W	5%	2R2 Ω	R620	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R267	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω	R622	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R268	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R647	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R269	ERQ14AJ101P	METAL	0.25W	5%	100 Ω	R648	ERJ6GEYJ332	S.M.CARB	0.1W	5%	зкз Ω
R271	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	R650	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R272	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω	R701	ERQ12AJ330P	METAL	0.5W	5%	330 Ω
R350	ERQ12AJ151P	FUSIBLE	0.5W	5%	150 Ω	R702	ERX2SJS2R7H	FUSIBLE	2W	5%	2R7 Ω
R352	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2Κ Ω	R703	ERG2FJ821H	METAL	2W	5%	820 Ω
R355	ERG1ANJP683H	METAL	0.5W	5%	68K Ω	R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R356	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω	R705	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R358	ERDS1TJ821T	CARBON	0.5W	5%	820 Ω	R706	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R360	ERO50PKF8251	METAL	0.5W	5%	8M2 Ω	R707	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R362	ERJ6GEYJ202	S.M.CARB	0.1 W	5%	2Κ Ω	R708	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R365	ERĞ1ANJP683H	METAL	0.5W	5%	68K Ω	R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R366	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27Κ Ω
R368	ERDS1TJ821T	CARBON	0.5W	5%	820 Ω	R711	ERG1SJ101E	METAL	1W	5%	100 Ω
R372	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2Κ Ω	R712	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1ΚΩ
R375	ERG1ANJP683H	METAL	0.5W	5%	68K Ω	R714	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R376	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ω 0	R715	ERDS2TJ272T	CARBON	0.25W	5%	2Κ7 Ω
R378	ERDS1TJ821T	CARBON	0.5W	5%	820 Ω	R716	ERQ12AJ680P	METAL	0.5W	5% 5%	68 Ω 1 K Ω
R382	ERJ6GEY0R00	S.M.CARB	0.1W	5% 5%	ΩΟ	R718 R719	ERJ6GEYJ102 ERJ6GEYJ224	S.M.CARB S.M.CARB	0.1W 0.1W	5%	220Κ Ω
R383	ERJ6GEY0R00	S.M.CARB	0.1W 0.5W		0 Ω 1R2 Ω	R719	ERJ6GEYJ105	S.M.CARB	0.1W	5%	220K Ω 1M Ω
R385	ERQ12HJ1R2P	METAL		5% 5%	820 Ω	R721	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω
R394	ERJ6GEYJ821	S.M.CARB S.M.CARB	0.1W 0.1W	5%	820 Ω	R801	ERC12ZGK335V	SOLID	0.5W		3M3 Ω 🛦
R396 R398	ERJ6GEYJ821 ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	R805	ERD25TJ473T	CARBON	0.25W	5%	47K Ω
R451	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	R806	ERD25TJ100T	CARBON	0.25W	5%	10 Ω
R451	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	R807	ERD25TJ332T	CARBON	0.25W	5%	3Κ3 Ω
R452	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω	R809	ERD25TJ681T	CARBON	0.25W	5%	680 Ω
R454	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39 Κ Ω	R810	ERW2PKR27P	WOUND		10%	R27 Ω
R455	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	R811	ERW2PKR27P	WOUND		10%	R27 Ω
R456	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100 K Ω	R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω 🛦
R457	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22Κ Ω	R813	ERF7ZK2R7	WOUND		20%	2R7 Ω
R458	ERDS1TJ1R0T	CARBON	0.5W	5%	1 Ω	R814	ERD25TJ473T	CARBON	0.25W	5%	47K Ω
R459	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	R815	ERD25TJ222T	CARBON	0.25W	5%	2Κ2 Ω
R461	ERX2SJS1R2H	FUSIBLE	2W	5%	1R2 Ω	R850	ERD25TJ122T	CARBON	0.25W	5%	1K2 Ω

BRSSS BRSSCY2191	Cct Ref	Parts Number	Description				Cct Ref	Parts Number	Description			
Response Response	R852	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	R1112	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R856	R853	ERJ6GEYJ102	S.M.CARB	0.1 W	5%	1K Ω	R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R850	R854	ERG2FJ223H	METAL	2W	5%	22K Ω	R1115	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
RESS	R855	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7 K 5 Ω	R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R856	R856	ERJ6GEYJ752	S.M.CARB	0.1 W	5%	7 K 5 Ω	R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R880	R857	ERJ6GEYJ752	S.M.CARB	0.1 W	5%	7 K 5 Ω	R1118	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K 7 Ω
R881	R858	ERJ6GEYJ752	S.M.CARB	0.1 W	5%	7 K 5 Ω	R1119	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R882	R859	ERJ6GEYJ753	S.M.CARB	0.1 W	5%	75K Ω	R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R886	R861		CARBON	0.5W	5%	220 Ω	R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
BR86	R862		CARBON	0.25W	5%		R1123	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
BR86	R863		CARBON	0.5W	5%	56 Ω	R1124	ERJ6GEYJ1R0	S.M.CARB	0.1W	5%	1 Ω
R886	R864	ERDS1TJ151T	CARBON	0.5W	5%		R1125	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R889									S.M.CARB	0.1W	5%	100 Ω
R889									S.M.CARB	0.1W	5%	100 Ω
R870 ERIGEVIJ193 S. M.CARB 0.1W 5% 10K 0.							R1128	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R872								ERJ6GEYJ682	S.M.CARB	0.1W	5%	6 K 8 Ω
R872											5%	10K Ω
R873								ERJ6GEYJ103	S.M.CARB		5%	10K Ω
R876							i					100 Ω
R876												2 K 7 Ω
R876												27Κ Ω
R876												Ω Ο
R879												1M Ω
R880 RRGSF1120H METAL SW 5% 12 Ω R1141 RJGSEYJ471 SM CARB 0.1W 5% 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470 470							i i					470 Ω
R880	1											470 Ω
R890												470 Ω
R913	i											4 K 7 Ω
R914	i											100 Ω
R915												100 Ω
R916							i					100 Ω
R917							!					100 Ω
R918												22K Ω
R919	i .											100 Ω
R920 ERQ14AJW390E FUSIBLE 0.25W 5% 39 Ω R1155 ERJ6GEYJ101 S M CARB 0.1W 5% 100 R922 ERDSZTJ683T CARBON 2W 5% 68K Ω R1156 ERJ6GEYJ101 S M CARB 0.1W 5% 100 R923 ERDSSTJ683T CARBON 2W 5% 68K Ω R1157 ERJ6GEYJ101 S M CARB 0.1W 5% 100 R924 ERDS1FYJ390T CARBON 0.5W 5% 39 Ω R1158 ERJ6GEYJ101 S M CARB 0.1W 5% 100 R925 ERJ6GEYORO0 S M CARB 0.1W 5% 0 Q R1169 ERJ6GEYJ223 S M CARB 0.1W 5% 100 R926 ERJ6GEYORO0 S M CARB 0.1W 5% 100 R1169 ERJ6GEYJ022 S M CARB 0.1W 5% 20K R927 ERDS2TJ4Z17 CARBON 0.5W 5% 380 Ω R1163 ERJ6GEYJ322 S M CARB												100 Ω
R922 ERDS2TJ683T CARBON 2W 5% 68K Ω R1156 ERJ6GEYJ101 SM.CARB 0.1W 5% 100 R923 ERDS2TJ683T CARBON 2W 5% 68K Ω R1157 ERJ6GEYJ101 SM.CARB 0.1W 5% 100 R924 ERDS1FYJ390T CARBON 0.5W 5% 39 Ω R1158 ERJ6GEYJ101 SM.CARB 0.1W 5% 100 R925 ERJ6GEYORO0 SM.CARB 0.1W 5% 0 Ω R1160 ERJ6GEYJ0223 SM.CARB 0.1W 5% 0 Ω R927 ERDS2TJ5R6T CARBON 0.25W 5% 586 Ω R1161 ERJ6GEYJ222 SM.CARB 0.1W 5% 2K2 R929 ERDS1FVJ471T CARBON 0.5W 5% 470 Ω R1163 ERJ6GEYJ3222 SM.CARB 0.1W 5% 2K2 R931 ERD51FVJ471T CARBON 0.5W 5% 380 Ω R1165 ERJ6GEYJ3222 SM.CARB 0.1W	1											100 Ω
R923 ERDS2TJ683T CARBON 2W 5% 68K Ω R1157 ERJ6GEYJ103 SM.CARB 0.1W 5% 10K R824 ERD51FYJ390T CARBON 0.5W 5% 39 Ω R1158 ERJ6GEYJ101 SM.CARB 0.1W 5% 100 R925 ERJ6GEY0R00 SM.CARB 0.1W 5% 0 Ω R1159 ERJ6GEYJ0203 SM.CARB 0.1W 5% 100 R926 ERJ6GEY0R00 SM.CARB 0.1W 5% 0 Ω R1160 ERJ6GEYJ223 SM.CARB 0.1W 5% 22K R927 ERD52TJ122T CARBON 0.25W 5% 586 Ω R1162 ERJ6GEYJ103 SM.CARB 0.1W 5% 2KZ R929 ERD51FVJ471T CARBON 0.5W 5% 38 Ω R1163 ERJ6GEYJ103 SM.CARB 0.1W 5% 2KZ R931 ERD51FVJ471T CARBON 0.5W 5% 38 Ω Q R1164 ERJ6GEYJ1322 SM.CARB								•				100 Ω
R924 ERDS1FYJ390T CARBON 0.5W 5% 39 Ω R1158 ERJ6GEYJ101 S.M.CARB 0.1W 5% 100 R925 ERJ6GEYOR00 S.M.CARB 0.1W 5% 0 Ω R1159 ERJ6GEYOR00 S.M.CARB 0.1W 5% 0 Ω R1160 ERJ6GEYJ223 S.M.CARB 0.1W 5% 22K R926 ERJ6GEYOR00 S.M.CARB 0.1W 5% 0 Ω R1160 ERJ6GEYJ223 S.M.CARB 0.1W 5% 22K R927 ERDS2TJ122T CARBON 0.25W 5% 1K2 Ω R1161 ERJ6GEYJ103 S.M.CARB 0.1W 5% 10K R928 ERDS2TJ5R6T CARBON 0.5W 5% 5R6 Ω R1162 ERJ6GEYJ222 S.M.CARB 0.1W 5% 2K2 R929 ERDS1FYJ390T CARBON 0.5W 5% 370 Ω R1163 ERJ6GEYJ322 S.M.CARB 0.1W 5% 2K2 R931 ERDS1FYJ390T CARBON 0.5W 5% 389 Ω R1164 ERJ6GEYJ322 S.M.CARB 0.1W 5% 5% 5% 5% 5% 389 Ω R1165 ERJ6GEYJ322 S.M.CARB 0.1W 5% 5% 5% 5% 5% 5% 10 Ω R1165 ERJ6GEYJ312 S.M.CARB 0.1W 5% 5% 5% 5% 5% 5% 10 Ω R1166 ERJ6GEYJ312 S.M.CARB 0.1W 5% 5% 5% 5% 5% 5% 10 Ω R1166 ERJ6GEYJ312 S.M.CARB 0.1W 5% 5% 5% 5% 5% 5% 5% 5												100 Ω
R925 ERJ6GEYOROO S.M.CARB 0.1W 5% 0 Ω R1159 ERJ6GEYOROO S.M.CARB 0.1W 5% 0 Ω R1160 ERJ6GEY0ROO S.M.CARB 0.1W 5% 2 Z R 2 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z												10K Ω
R926 ERJ6GEY0R00 S.M.CARB 0.1W 5% 0 Ω R1160 ERJ6GEYJ223 S.M.CARB 0.1W 5% 22K R927 ERDS2TJ122T CARBON 0.25W 5% 1K2 Ω R1161 ERJ6GEYJ103 S.M.CARB 0.1W 5% 10K R928 ERDS2TJ5R6T CARBON 0.5W 5% 5R0 Ω R1162 ERJ6GEYJ222 S.M.CARB 0.1W 5% 2K2 R929 ERDS1FYJ471T CARBON 0.5W 5% 39 Ω R1164 ERJ6GEYJ322 S.M.CARB 0.1W 5% 2K2 R931 ERDS1FYJ399T CARBON 0.5W 5% 39 Ω R1164 ERJ6GEYJ322 S.M.CARB 0.1W 5% 3K3 R935 ERQ14AJW30R9E FUSIBLE 1V 5% 1K Ω R1166 ERJ6GEYJ102 S.M.CARB 0.1W 5% 9K1 R937 ERQ14AJW100E FUSIBLE 0.25W 5% 1K Ω R1168 ERJ6GEYJ473 S.M.CARB </td <td></td> <td>100 Ω</td>												100 Ω
R927 ERDS2TJ122T CARBON 0.25W 5% 1K2 Ω R1161 ERJ6GEYJ103 S.M.CARB 0.1W 5% 10K R928 ERDS2TJ5R6T CARBON 0.25W 5% 586 Ω R1162 ERJ6GEYJ222 S.M.CARB 0.1W 5% 2K2 2K2												Ω 0
R928 ERDS2TJ5R6T CARBON 0.25W 5% 5R6 Ω R1162 ERJ6GEYJ222 SM.CARB 0.1W 5% 2/2 R929 ERDS1FVJ471T CARBON 0.5W 5% 470 Ω R1163 ERJ6GEYJ222 SM.CARB 0.1W 5% 2K2 R931 ERDS1FYJ390T CARBON 0.5W 5% 39 Ω R1164 ERJ6GEYJ3222 SM.CARB 0.1W 5% 3K3 R935 ERQ14AJW3R9E FUSIBLE 0.25W 5% 3R9 Ω R1166 ERJ6GEYJ512 SM.CARB 0.1W 5% 5K1 R936 ERQ14AJW300E FUSIBLE 0.25W 5% 10 Ω R1166 ERJ6GEYJ102 SM.CARB 0.1W 5% 5K1 R937 ERQ14AJW3100E FUSIBLE 0.25W 5% 1K Ω R1166 ERJ6GEYJ102 SM.CARB 0.1W 5% K1 Q R1167 ERJ6GEYJ100 S.M.CARB 0.1W 5% 47 Q R1168 ERJ6GEYJ4773 SM.CAR							*					22K Ω
R929 ERDS1FVJ471T CARBON 0.5W 5% 470 Ω R1163 ERJ6GEYJ222 SM.CARB 0.1W 5% 2/2 R931 ERDS1FYJ390T CARBON 0.5W 5% 39 Ω R1164 ERJ6GEYJ332 SM.CARB 0.1W 5% 3K3 R935 ERQ14AJW3R9E FUSIBLE 0.25W 5% 3R9 Ω R1165 ERJ6GEYJ512 SM.CARB 0.1W 5% 5K1 R936 ERQ1CJP102S FUSIBLE 0.25W 5% 10 Ω R1166 ERJ6GEYJ100 SM.CARB 0.1W 5% 9K1 R937 ERQ14AJW100E FUSIBLE 0.25W 5% 10 Ω R1166 ERJ6GEYJ100 SM.CARB 0.1W 5% 9K1 R938 ERDS2TJ5R6T CARBON 0.25W 5% 5R6 Ω R1169 ERJ6GEYJ100 SM.CARB 0.1W 5% 4K7 R1051 ERJ6GEYJ102 SM.CARB 0.1W 5% 1K Ω R1170 ERJ6GEYJ273 SM.CARB 0.	İ						!					10K Ω
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Cct Ref	Parts Number	Description					Cct Ref	Parts Number	Description	· !			
R1511	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω		R1585	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1512	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω		R1586	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1513	ERJ6GEYJ102	S.M.CARB	0.1 W	5%	1K Ω		R1587	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1 K 5 Ω	
R1514	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω		R1588	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510 Ω	i
R1515	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7 K 5 Ω	į	R1589	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1 K 5 Ω	
R1517	ERJ6GEY0R00	S.M.CARB	0.1W	5%	Ο Ω	:	R2101	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1521	ERJ6GEYJ750	S.M.CARB	0.1 W	5%	75 Ω	i	R2102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1522	ERJ6GEYJ391	S.M.CARB	0.1 W	5%	390 Ω		R2103	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1523	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω		R2109	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	i
R1524	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω		R2110	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	,
R1525	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω		R2111	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	-
R1526	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω		R2112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1527	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω		R2113	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5 K 6 Ω	1
R1528	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω		R2114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1529	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1 K 2 Ω	!	R2115	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8 K 2 Ω	
R1530	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω		R2116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1531	ERJ6GEYJ102	S.M.CARB	0.1 W	5%	1K Ω	:	R 2117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1532	ERJ6GEYJ391	S.M.CARB	0.1 W	5%	390 Ω		R2118	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R1533	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1 K2 Ω		R2119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1534	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω		R2120	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R1535	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω		R2302	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1536	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω		R2303	ERJ6GEYJ101	S.M.CARB	0.1 W	5%	100 Ω	
R1537	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6Κ8 Ω		R2304	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1538	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω		R2305	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1539	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω		R2306	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1540	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6Κ8 Ω		R2308	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	:
R1541	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω		R2309	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1542	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω		R2310	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1543	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R2311	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1Κ Ω	
R1544	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R2312	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1545	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3001	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1546	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω		R3002	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1547	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3003	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1548	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3004	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R1549	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1550	ERJ6GEYJ101	S.M.CARB	0.1W	5% 5%	100 Ω		R3006	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1551	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3007	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1552 R1553	ERJ6GEYJ101	S.M.CARB S.M.CARB	0.1W 0.1W	5% 5%	100 Ω 100 Ω		R3008 R3010	ERJ6GEYJ153	S.M.CARB	0.1W 0.25W	5% 5%	15 Κ Ω 75 Ω	
R1554	ERJ6GEYJ101 ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3010	ERDS2TJ750T ERJ6GEYJ101	CARBON S.M.CARB	0.25W	5%	73 Ω 100 Ω	
R1555	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1556	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3015	ERJ6GEYJ101	S.M.CARB	0.1 W	5%	100 Ω	
R1557	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3016	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R1558	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3017	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1559	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1560	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3019	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1561	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3020	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R1562	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3021	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	i
R1563	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3046	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1564	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3047	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1565	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3048	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1566	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3049	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1567	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3050	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	1
R1568	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3057	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R1569	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3101	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω	
R1570	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3102	ERDS1TJ151T	CARBON	0.5W	5%	150 Ω	
R1571	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3103	ERG2FJ221H	METAL	2W	5%	220 Ω	
R1572	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3104	ERG2FJ221H	METAL	2W	5%	220 Ω	į
R1573	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	:
R1574	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω		R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R1575	ERJ6GEY0R00	S.M.CARB	0.1W	5%	ο Ω		R3356	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R1577	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω		R3357	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R1578	ERJ6GEYJ103	S.M.CARB	0.1W	5%			R3358	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	:
R1579	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	•	R3360	ERDS1TJ471T	CARBON	0.5W	5%	470 Ω	-
R1580	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω		R3361	ERO50PKF1133	METAL	0.5W	5%	110K Ω	
R1584	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω		R3362	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
		J 37 11 12		2,0	., - 22				S.M.OMIND	J. 1 V V	J /0	1011 22	

Cct Ref	Parts Number	Description			Cct Ref	Parts Number	Description			
R3363	ERJ6GEYJ103	S.M.CARB	0.1 W	5% 10K Ω	C374	ECQE2104KF3	FILM	250V	100nF	
R3364	ERJ6GEYJ103	S.M.CARB	0.1W	5% 10K Ω	C375	ECKR2H102KB5	CERAMIC	500 V	1nF	
R3601	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100 Ω	C378	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
R3602	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100 Ω	C381	ECA1CM101B	ELECT	16V	100µF	
R3603	ERJ6GEYJ101	S.M.CARB	0.1W	5% 100 Ω	C382	ECA1CM471B	ELECT	16V	470µF	
CAPACI					C383	ECJ2VB1H103K	ELECT	350V	10nF	
			0501	400-E	C384	ECQE2104KFW	FILM	250V	100nF	
101	ECJ2VB1C104K	ELECT	350V	100nF	C385	ECA2EM220B	ELECT	250V	22µF	
102	ECJ2VB1C104K	ELECT	350V	100nF	C386	ECKW3D152JBN	CERAMIC	2kV	1.5nF	
2103	ECJ2VF1H104Z	ELECT	350V	100nF	C451	ECUV1H102JX	S.M. CAP	50V	1nF	
C105	ECUV1H560JCX	S.M. CAP	50V	56pF	C453	ECUV1H152KBX	S.M. CAP	50V	1.5pF	
C106	ECUV1H560JCX	S.M. CAP	50V	56pF	C454	ECQV1H105JL3	FILM	50V	1µF	
2107	ECJ2VF1H104Z	ELECT	350V	100nF	C455	ECA1HM100B	ELECT	50V	10µF	
2108	ECA1CM470B	ELECT	16V	47µF	C456	ECA1HHG221B	ELECT	50V	220µF	
C109	ECUV1H102JCX	S.M. CAP	50V	1nF			FILM	100V	220µF	
C110	ECJ2VF1H103Z	ELECT	350V	10nF	C459	ECQB1224KFW		50V	10nF	
C111	ECA1HMR33B	ELECT	50V	330nF	C508	ECQB1H103KF3	FILM			
C114	ECJ2VF1H104Z	ELECT	350V	100nF	C509	ECA1VM470B	ELECT	35V	47µF	
C115	ECJ2VF1H103Z	ELECT	350V	10nF	C511	ECQE2683KFW	FILM	100V	68nF	
2116	ECA1CM221B	ELECT	16V	220µF	C552	ECWH15H102JN	FILM	1500V	1nF	
2117	ECJ2VF1H103Z	ELECT	350V	10nF	C557	ECKR2H471KB5	CERAMIC	500V	470pF	
C118	ECJ2VF1H104Z	ELECT	350V	100nF	C558	ECA1HHG471E	ELECT	50V	470μF	
C119	ECA1CM221B	ELECT	16V	220µF	C561	ECA1EHG102B	ELECT	25V	1000µF	
		ELECT	16V	220µF	C562	ECKR2H101KB5	CERAMIC	500V	100pF	
C120	ECA1CM221B	ELECT	350V	10nF	C563	ECA2EHG220B	ELECT	250V	20µF	
C121	ECJ2VB1H103K			22pF	C564	ECEA2AU2R2B	ELECT	100V	2.2µF	
C124	ECUV1H220JCX	S.M. CAP	50V		C565	ECQP1H273JZW	FILM	100V	27nF	
C125	ECUV1H100DCX	S.M. CAP	50V	10pF	C566	ECKR2H471KB5	CERAMIC	500V	470pF	
C133	ECJ2YB1H104K	ELECT	350V	100nF	C567	ECA1EHG102B	ELECT	25V	1000µF	
C134	ECJ2YB1H104K	ELECT	350V	100nF	C568	ECKR2H471KB5	CERAMIC	500V	470pF	
C135	ECUV1H104KBW	S.M. CAP	50V	100nF	C569	ECKR2H102KB5	CERAMIC	500V	1nF	
C136	ECJ2YB1H104K	ELECT	350V	100nF	C583	ECWH20562JVB	FILM	200V	5.6nF	
C138	ECJ2YB1H104K	ELECT	350V	100nF	C587	ECQF4223JZH	FILM	400V	22nF	
C251	ECA1EM470B	ELECT	25V	47µF	C608	ECJ2VB1H103K	ELECT	350V	10nF	
C252	ECJ2VB1H103K	ELECT	350V	10nF	C609	ECUV1H270JCX	S.M. CAP	50V	27pF	
C253	ECA1HM4R7B	ELECT	50V	4.7µF				50V	120pF	
C254	ECQV1H684JL3	FILM	50V	680nF	C623	ECUV1H121JCX	S.M. CAP			
C255	ECA1EM101B	ELECT	25V	100µF	C624	ECUV1H121JCX	S.M. CAP	50V	120pF	
C256	ECJ2VB1H103K	ELECT	350V	10nF	C625	ECQV1H224JL3	FILM	50V	220nF	
C257	ECA1HM4R7B	ELECT	50V	4.7µF	C626	ECA1CM100B	ELECT	16V	10µF	
C258	ECA1EM470B	ELECT	25V	47μF	C627	ECJ2VB1C104K	ELECT	350V	100nF	
C259	ECQV1H684JL3	FILM	50V	680nF	C628	ECQV1H224JL3	FILM	50V	220nF	
C260	ECA1VM102B	ELECT	35V	1000µF	C701	ECA1HHG101B	ELECT	50V	100µF	
		ELECT	35V	1000µF	C702	ECJ2VB1H103K	ELECT	350V	10nF	
C261	ECA1VM102B		50V	270nF	C703	ECA1HHG100E	ELECT	50V	10µF	
C262	ECQV1H274JL3	FILM			C704	ECJ2VB1H223K	ELECT	350V	22nF	
C263	ECA1HM010B	ELECT	50V	1µF	C705	ECQB1H102KF3	ELECT	50V	1nF	
C264	ECA1HHG222E	ELECT	50V	2200µF	C709	ECQV1H105JL3	FILM	50V	1µF	
C265	ECQV1H274JL3	FILM	50V	270nF	C801	ECQE2A474MWB		250V	470nF	
C266	ECA1HM010B	ELECT	50V	1µF	C804	222233510224	FILM	250V	220nF	
C267	ECJ2YB1H104K	ELECT	350V	100nF	C806	ECKWNA101MB	CERAMIC	400V	100µF	
C268	ECJ2YB1H104K	ELECT	350V	100nF	: C807	ECKW2H472PU7	CERAMIC	500V	4.7nF	
C270	ECJ2YB1H104K	ELECT	350V	100nF	C808	ECKW2H472PU7	CERAMIC	500V	4.7nF	
C350	ECUV1H102JCX	S.M. CAP	50V	1nF		ECKW2H472PU7	CERAMIC	500V	4.7nF	
C352	ECJ2VF1H224Z	ELECT	350V	220nF	C809	and the second s			4.7nF	
C353	ECJ2YB1H104K	ELECT	350V	100nF	C810	ECKW2H472PU7	CERAMIC	500V	220µF	
C354	ECQE2104KF3	FILM	250V	100nF	C811	222215946221	ELECT	400V		
C355	ECKR2H102KB5	CERAMIC	500V	1nF	C814	ECKW3D102KBP	CERAMIC	2kV	1nF	
C358	ECUV1H222JCX	S.M. CAP	50V	2.2nF	C815	ECKR1H471KB5	CERAMIC	50V	470pF	
C360	ECUV1H102JCX	S.M. CAP	50V	1nF	C816	ECA1EM101B	ELECT	25 V	100µF	
C362	ECJ2VF1H224Z	ELECT	350V	220nF	C817	ECQE6104KFW	FILM	600V	100nF	
C363		ELECT	350V	100nF	C818	ECKCWS332MEB	CERAMIC	1,2k V	3.3nF	
	ECJ2YB1H104K			100nF	C819	ECQB1H152KF3	FILM	50V	1.5nF	
C364	ECQE2104KF3	FILM	250V		C820	ECJ2VF1H104Z	ELECT	350V	100n F	
C365	ECKR2H102KB5	CERAMIC	500V	1nF	C839	ECA1CM100B	ELECT	16 V	10µF	
C368	ECUV1H222JCX	S.M. CAP	50V	2.2nF	C840	ECJ2YB1H104K	ELECT	350V	100nF	
C369	ECUV1H220JCX	S.M. CAP	50V	22pF	C841	ECA1AM222B	ELECT	10V	2200µF	
C370	ECUV1H102JCX	S.M. CAP	50 V	1nF	C841	ECA1CM100B	ELECT	16 V	10µF	
C372	ECJ2VF1H224Z	ELECT	350V	220nF	C850	ECKW3D471GBP		2kV	470pF	

Cct Ref	Parts Number	Description			Cct Ref	Parts Number	Description	1	
C851	ECA2CHG221E	ELECT	160 V	220µF	C1505	ECUV1H271JCX	S.M. CAP	50V	270pF
C852	ECA2CHG101E	ELECT	160V	100μF	C1506	ECUV1H271JCX	S.M. CAP	50V	270pF
C853	ECKR2H471KB5	CERAMIC	500V	470pF	C1507	ECUV1H271JCX	S.M. CAP	50V	270pF
C854	ECA1EM102B	ELECT	25V	1000µF	C1508	ECUV1H271JCX	S.M. CAP	50V	270pF
C855	ECKR2H471KB5	CERAMIC	500V	470pF	C1509	ECQV1H684JL3	FILM	50V	680nF
C856	ECA1AHG332B	ELECT	10V	3.3nF	C1510	ECQV1H684JL3	FILM	50V	680nF
C857	ECKR2H471KB5	CERAMIC	500V	470pF	C1511	ECQV1H684JL3	FILM	50V	680nF
C858	ECEA1HGE102E	ELECT	50V	1000μF	C1512	ECQV1H684JL3	FILM	50V	680nF
C859	ECJ2VF1H104Z	ELECT	350V	100nF	, C1513	ECUV1H102JCX	S.M. CAP	50V	1nF
C860	ECA1CM101B	ELECT	16V	100µF	C1514	ECEA1CKA100B	ELECT	16V	10µF
C862	ECJ2VF1H104Z	ELECT	350V	100nF	C1515	ECJ2VB1H103K	ELECT	350V	10nF
C863	ECA1CM101B	ELECT	16V	100μF	C1516	ECEA1CKA101B	ELECT	16V	100µF
C864	ECJ2VF1H104Z	ELECT	350V	100nF	C1517	ECJ2YB1H473K	ELECT	350V	47nF
C865	ECA1CM100B	ELECT	16V	10μ F	C1518	ECEA1CKA100B	ELECT	16V	10µF
C866	ECJ2VF1H104Z	ELECT	350V	100nF	C1519	ECUV1H050CCX	S.M. CAP	50V	50pF
C867	ECA1CM100B	ELECT	16V	10μ F	C1520	ECUV1H050CCX	S.M. CAP	50V	50pF
C868	ECA1CM100B	ELECT	16V	10μF	C1521	ECJ2VB1H103K	ELECT	350V	10nF
C869	ECA1EM101B	ELECT	25V	100μF	C1522	ECEA1CKA100B	ELECT	16V	10µF
C870	ECA1EM471B	ELECT	25V	470µF	C1523	ECJ2VB1H103K	ELECT	350V	10nF
C871	ECA1CM332E	ELECT	16V	3300µF	C1524	ECEA1CKA100B	ELECT	16V	10µF
C872	ECA1CM471B	ELECT	16V	470µF	C1525	ECJ2VB1H103K	ELECT	350V	10nF
C873	ECA1CM100B	ELECT	16V	10μF	C1526	ECEA1CKA100B	ELECT	16V	10µF
C875	ECA2CM4R7B	ELECT	160V	10µF	C1527	ECJ2VB1C104K	ELECT	350V	100nF
C876	ECA1HHG101B	ELECT	50V	100μF	C1528	ECEA1CKA100B	ELECT	16V	10µF
C902	ECA1VM101B	ELECT	35V	100μF	C1529	ECJ2VB1C104K	ELECT	350V	100nF
C904	ECJ2VF1H103Z	ELECT S.M. CAR	350V 50V	10nF 56nF	C1530 C1531	ECEA1CKA100B	ELECT	16V 350V	10µF 100nF
C906	ECUV1H563KBX	S.M. CAP	50 V		C1531	ECJ2VB1C104K ECEA1CKA100B	ELECT ELECT	16V	
C907 C909	ECUV1H331JCX ECKR2H472MD5	S.M. CAP CERAMIC	500V	330pF 4.7nF	C1532	ECUV1H222JCX	S.M. CAP	50V	10µF 2.2nF
C909	ECKR2H472MD5	CERAMIC	500V	4.7nF	C1540	ECJ2VB1H333K	ELECT	350V	33nF
C910	ECA2EM220B	ELECT	250V	4./πF 22μF	C1541	ECJ2VB1H333K	ELECT	350V	33nF
C912	ECA1CM101B	ELECT	16V	100µF	C1543	ECJ2VB1F333K	ELECT	350V	220nF
C914	ECA1CM101B	ELECT	16V	100μF	C1544	ECJ2VB1H333K	ELECT	350V	33nF
C916	ECA2EM220B	ELECT	250V	22μF	C1545	ECEA1CKA100B	ELECT	16V	10µF
C917	ECA1HM100B	ELECT	50V	10μF	C1546	ECEA1CKA100B	ELECT	16V	10μF
C918	ECJ2VF1H103Z	ELECT	350V	10nF	C1547	ECJ2VB1H103K	ELECT	350V	10nF
C919	ECCR2H270JC5	CERAMIC	500V	27pF	C1548	ECJ2VB1H103K	ELECT	350V	10nF
C1071	ECUV1H331JCX	S.M. CAP	50V	330pF	C1549	ECJ2VB1H103K	ELECT	350V	10nF
C1072	ECJ2VB1H103K	ELECT	350V	10nF	C1550	ECJ2VB1H103K	ELECT	350V	10nF
C1073	ECA1CM101E	ELECT	16V	100µF	C1551	ECJ2VB1H103K	ELECT	350V	10nF
C1101	ECJ2VF1H104Z	ELECT	350V	100nF	C1552	ECJ2VB1H103K	ELECT	350V	10nF
C1102	ECA0JM101B	ELECT	400V	100µF	C1553	ECEA1CKA100B	ELECT	16V	10µF
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF	C1554	ECJ2VB1H103K	ELECT	350V	10nF
C1104	ECUV1H220JCX	S.M. CAP	5 0V	22pF	C1555	ECJ2VB1C104K	ELECT	350V	100nF
C1105	ECUV1H101JCX	S.M. CAP	50V	100pF	C1556	ECUV1H270JCX	S.M. CAP	50V	27pF
C1108	ECJ2VB1H333K	ELECT	350V	33nF	C1557	ECUV1H270JCX	S.M. CAP	50V	27pF
C1111	ECA1CM100B	ELECT	16V	10µF	C1558	ECJ2VB1H103K	ELECT	350V	10nF
C1112	ECJ2VB1H103K	ELECT	350V	10nF	C1559	ECEA1CKA100B	ELECT	16V	10µF
C1115	ECJ3VB1C474K	ELECT	3.5KV	470nF	C1560	ECEA1CKA100B	ELECT	16 V	10μ F
C1116	ECJ2VB1H472K	ELECT	350V	4.7nF	C1561	ECJ2VB1C104K	ELECT	350V	100nF
C1117	ECJ2VF1H104Z	ELECT	350V	100nF	C1562	ECJ2VB1C104K	ELECT	350V	100nF
C1118	ECJ2VB1H103K	ELECT	350V	10nF	C1563	ECJ2VB1C104K	ELECT	350V	100nF
C1119	ECUV1H221JCX	S.M. CAP	50V	220pF	C1564	ECJ2VB1C104K	ELECT	350V	100nF
C1120	ECJ2VF1H104Z	ELECT	350V	100nF	C1566	ECUV1H270JCX	S.M. CAP	50V	27pF
C1121	ECUV1H221JCX	S.M. CAP	50V	220pF	C1567	ECEA1CKA100B	ELECT	16V	10µF
C1123	ECUV1H471JCX	S.M. CAP	50V	470pF	C1568	ECJ2VB1H103K	ELECT	350V	10nF
C1124	ECUV1H221JCX	S.M. CAP	50V	220pF	C1569	ECEA1CKA100B	ELECT	16V	10µF
C1125	ECUV1H221JCX	S.M. CAP	50V	220pF	C1570	ECJ2VB1H103K	ELECT	350V	10nF
C1126	ECUV1H221JCX	S.M. CAP	50 V	220pF	C1571	ECJ2VB1H103K	ELECT	350V	10nF
C1127	ECUV1H561JCX	S.M. CAP	50V	560pF	C1572	ECEA1CKA100B	ELECT	16V	10µF
C1129	ECUV1H270JCX	S.M. CAP	50V	27pF	C1573	ECJ2VB1H103K	ELECT	350V	10nF
C1130	ECA1CM221B	ELECT	16V	220µF	C1574	ECEA1CKA100B	ELECT	16V	10µF
C1501	ECUV1H271JCX	S.M. CAP	50V	270pF	C1575	ECEA1CKA100B	ELECT	16V	10µF
C1502	ECUV1H271JCX	S.M. CAP	50V	270pF	C1576	ECJ2VB1H103K	ELECT	350V	10nF
C1503	ECUV1H271JCX	S.M. CAP	50V	270pF	C1577	ECUV1H270JCX	S.M. CAP	50V	27pF
C1504			50V	270pF	C1578		ELECT		

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Cct Ref	Parts Number	Description			Cct Ref	Parts Number	Description			
C1579	ECJ2VB1H103K	ELECT	350V	10nF	C3012	ECUV1H561JCX	S.M. CAP	50V	560pF	
C1580	ECJ2VB1H103K	ELECT	350V	10nF	C3013	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C1581	ECJ2VB1C224K	ELECT	350V	220nF	C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C1582	ECJ2VB1C224K	ELECT	350V	220nF	C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C1583	ECJ2VB1C224K	ELECT	350V	220nF	C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C1584	ECJ2VB1C104K	ELECT	350V	100nF	C3017	ECA1CM470B	ELECT	16V	47µF	
C1585	ECEA1CKA100B	ELECT	16V	10μF	C3019	ECUV1H561JCX	S.M. CAP	50V	560pF	
C1586	ECJ2VB1H103K	ELECT	350V	10nF	C3020	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C1587	ECEA1CKA100B	ELECT	16 V	10µF	C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C1588	ECEA1CKA100B	ELECT	16V	10µF :	C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C1589	ECJ2VB1H103K	ELECT	350V	10nF	C3023	ECUV1H222JCX	S.M. CAP	50 V	2.2nF	
C1590	ECJ2VB1H103K	ELECT	350V	10nF	C3024	ECA1CM470B	ELECT	16V	47µF	
C1591	ECEA1CKA100B	ELECT	16 V	10µF	C3026	ECUV1H561JCX	S.M. CAP	50V	560pF	
C1592	ECUV1H271JCX	S.M. CAP	50V	270pF	C3027	ECJ3VB1C474K	ELECT	3.5KV	470nF	
C1594	ECUV1H271JCX	S.M. CAP	50V	270pF	C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C1596	ECUV1H271JCX	S.M. CAP	50V	270pF	C3030	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1603	ECUV1H271JCX	S.M. CAP	50V	270pF	C3031	ECUV1H271JCX	S.M. CAP	50V	270pF	
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF	C3032	ECUV1H271JCX	S.M. CAP	50V	270pF	i
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF	C3101	ECJ2YB1H104K	ELECT	350V	100nF	
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF	C3102	ECJ2VB1E104K	ELECT	350V	100nF	:
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF	. C3111	ECUV1H222KBX	S.M. CAP	50V	2.2nF	
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF	C3351	ECA1CM221B	ELECT	16 V	220µF	
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF	TERMIN	ALS AND LINKS				
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF	JK381	TJS1A5230B	CRT SOCKET			A
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF	JK2301	JPJ841101320	RCA SOCKET			
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF	JK3001	0350808500	21PIN TERMIN	iΔi		
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF	SWITCH		ZII IN ILINIII	¥∕\L		!
C2111	ECA1CM100B	ELECT	16V	10μF						
C2112	ECA1CM100B	ELECT	16 V	10μF	S801	ESB92S11B	SWITCH			\triangle
C2113	ECA1HM3R3B	ELECT	50V	3R3µF	S1201	EVQ21405R	SWITCH			
C2114	ECJ2VF1H104Z	ELECT	350V	100nF	S1202	EVQ21405R	SWITCH			
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF	S1203	EVQ21405R	SWITCH			
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF	S1204	EVQ21405R	SWITCH			
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF	S1205	EVQ21405R	SWITCH			:
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF	RELAYS	3				
C2121	ECA1CM100B	ELECT	16V	10μF	RL801	TSE1885-1	RELAY			Δ
C2122	ECJ2VF1H104Z	ELECT	350V	100nF						
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF	DIFFER	RENCES FOR	MODEL TX	25LK	10F	
C2124	ECUV1H560JCX	S.M. CAP	50V	56pF						
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF						
C2126	ECUV1H560JCX	S.M. CAP	50V	56pF	EXPLO	DED VIEW				
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF	17	TKU8E00611	BACK COVER			Δ
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF	18	A59EAK071X54	C.R.T.			Λ
C2129	ECA1CM102B	ELECT	16V	1000µF	19	TKY8E531-1	CABINET			
C2130	ECA1CM331B	ELECT	16V	330µF	20	TLK8E05162	DEGAUSS CO	IL		A
C2134	ECJ2VF1H103Z	ELECT	350V	10nF	21	TNP8EE013BS	E P.C.B.			\triangle
C2135	ECA1CM101B	ELECT	16V	100µF	22	ZTFM05012A	F.B.T.			Δi
C2136	ECJ2VF1H104Z	ELECT	350V	100nF	23	TBM8E2049	MODEL LABEL	_		
C2137	ECA1CM100B	ELECT	16V	10μF	24	TNP8EP017AK	P P.C.B.			Δ
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF		LANEOUS COMP				
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF				:1		
C2140	ECA1CM101B	ELECT	16V	100µF		TBM8E2015	PRESET LABE	L		
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF		TPC8E4832	CARTON			i
C2301	ECUV1H222JCX	S.M. CAP	50V	2.2nF		TPD8E728	TOP CUSHION			
C2302	ECA1CM470B	ELECT	16V	47µF	MOTO	TPD8E729	BOTTOM CUS	HIUN		
C2303	ECUV1H222JCX	S.M. CAP	50V	2.2nF	INSTRUC	CTION BOOKS				
C2304	ECA1CM470B	ELECT	16V	47µF		TQB8E2987A-1	GERMAN			i
C3001	ECUV1H222JCX	S.M. CAP	50V	4/μF 2.2nF		TQB8E2987B	DUTCH			ļ
C3001	ECUV1H222JCX	S.M. CAP	50V 50V			TQB8E2987C-1	ITALIAN			1
C3002				2.2nF		TQB8E2987D-1	FRENCH			
C3003	ECA1CM470B	ELECT S.M. CAR	16V	47µF		TQB8E2987E	SPANISH			:
C3005	ECUV1H561JCX	S.M. CAP	50V	560pF		TQB8E2987F	SWEDISH			j
C3006	ECJ3VB1C474K	ELECT S.M. CAR	3.5KV	470nF		TQB8E2987G	NORWEGIAN			
C3007	ECUV1H222JCX	S.M. CAP	50V	2.2nF		TQB8E2987H	FINNISH			
	ECUV1H222JCX	S.M. CAP	50V	2.2nF						
						TQB8E2987K	DANISH			,
C3009 C3010	ECUV1H222JCX ECA1CM470B	S.M. CAP ELECT	50V 16V	2.2n F 47μF ;		TQB8E2987K	DANISH			i

Cct Ref	Parts Number	Description					Cct Ref	Parts Number	Description				
I.C.s								TQB8E2987C-1	ITALIAN				
IC451	LA7845N	VERTICAL C	HTPHT					TQB8E2987D-1	FRENCH				
IC1103	XLM3-01FFZ	EAROM	011 01					TQB8E2987E	SPANISH				
DIODES		LANOW						TQB8E2987F	SWEDISH				
DIODES							-	TQB8E2987G	NORWEGIA	N			
D456	MTZJT-777.5B	DIODE						TQB8E2987H	FINNISH				
D458	T3A206022	DIODE						TQB8E2987K	DANISH				
D617	MA3068MTX	DIODE					I.C.s						
D3101	MTZJT-778.2C	DIODE											
D3102	MTZJT-778.2C	DIODE					IC451	LA7876N	VERTICAL C	UTPUT			
COILS							IC1103	XLM3-02EFZ	EAROM				
J26	EXCELDR35V	COIL					DIODES						
L581	ELHKLB028B	COIL					D456	MTZJT-775.6C	DIODE				
L582	ELC18B221E	COIL					D458	EU02V0	DIODE				
L583	ELC10D3R3E	COIL					D617	MA3068MTX	DIODE				
L584	ELHKLB061B	COIL					D3101	MTZJT-778.2C	DIODE				
L3101	ELEBT6R8KA	COIL					D3102	MTZJT-778.2C	DIODE				
L3102	ELEBT6R8KA	COIL				!	COILS						
RESIST		COIL				1	J26	EXCELDR35V	COIL				
KESIST	UKS												
JA200	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 0	ו	L581	ELHKLB026B	COIL				
R460	ERG1SJ471P	METAL	1W	5%	470 Ω	ו	L582	ELC18B271E	COIL				
R465	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 🕻)	L583	ELC18B150L	COIL				
R555	ERQ12HKR33P	FUSIBLE	0.5W	10%	R33 (Ω	L584	ELHKLB025B	COIL				
R559	ERQ12HKR33P	FUSIBLE	0.5W	10%	R33 ()	L3101	ELEBT6R8KA	COIL				
R3105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 🕻	Ω	L3102	ELEBT6R8KA	COIL				
R3106	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 🕻		RESIST	DRS					
R3107	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K (JA200	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 9	0
R3108	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K £		R460	ERG3SJS151H	METAL	3W		150	
CAPACI			*****			_	R465	ERJ6GEYJ102	S.M.CARB	0.1W		1K 9	
							R555	ERQ12HKR82P	FUSIBLE		10%	R82 9	
C551	ECKW3D331JBN	CERAMIC	2kV		330pF		R559	ERQ12HKR82P	FUSIBLE		10%	R82 9	
C581	ECWF4564JBB	FILM	400V		560nF		R3105	ERJ6GEYJ101	S.M.CARB	0.1W		100 9	
C582	ECWF4474JBB	FILM	400V		470nF								
C584	ECWH20432JVB	FILM	200V		4.3nF		R3106	ERJ6GEYJ101	S.M.CARB	0.1W		100 9	
C586	ECQF4103JZH	FILM	400V		10nF		R3107	ERJ6GEYJ153	S.M.CARB	0.1W		15K (
C2115	ECUV1H221JCX	S.M. CAP	50V		220pF		R3108	ERJ6GEYJ153	S.M.CARB	0.1 W	5%	15K 9	12
C2116	ECUV1H221JCX	S.M. CAP	50V		220pF		CAPACI	IORS					
C3103	ECUV1H561JCX	S.M. CAP	50V		560pF		C463	ECA1HM221B	ELECT	50V		220µF	
C3104	ECUV1H561JCX	S.M. CAP	50V		560pF		C551	ECKW3D681JBN	CERAMIC	2kV		680pF	
C3105	ECUV1H561JCX	S.M. CAP	50 V		560pF		C581	ECWF4684JBB	FILM	400V		680nF	
C3106	ECUV1H561JCX	S.M. CAP	50V		560pF		C582	ECWF4684JBB	FILM	400V		680nF	
C3107	ECA1HM470B	ELECT	50V		47µF	1	C584	ECWH20562JVB	FILM	200V		5.6nF	
C3108	ECA1HM470B	ELECT	50V		47μ F		C586	ECQF4123JZH	FILM	400V		12nF	
	ALS AND LINKS				•		C2115	ECUV1H221JCX	S.M. CAP	50V		220pF	
							C2116	ECUV1H221JCX	S.M. CAP	50V		220pF	
JK3101	TJB16673	A.V. TERMIN	IAL				C3103	ECUV1H561JCX	S.M. CAP	50V		560pF	
DIEEE	SENOTO FOR	MODEL T	·	1/40	_		C3104	ECUV1H561JCX	S.M. CAP	50V		560pF	
DIFFER	RENCES FOR	MODEL I	X281	_K10) -		C3105	ECUV1H561JCX	S.M. CAP	50V		560pF	
												•	
EXPLO	DED VIEW						C3106	ECUV1H561JCX	S.M. CAP	50V		560pF	
			_			٨	C3107	ECA1HM470B	ELECT	50V		47µF	
17	TKU8E00621	BACK COVE	:R			A	C3108	ECA1HM470B	ELECT	50V		47µF	
18	A66ECF50X82	C.R.T.				Δ	TERMIN	ALS AND LINKS					
19	TKY8E521-1	CABINET					JK3101	TJB16673	A.V. TERMIN	AL			
20	TLK8E05140	DEGAUSS C	OIL			A :							
21	TNP8EE013BM	E P.C.B.				Δ	DIFFER	ENCES FOR	MODEL T	X28	SK10)F	
22	ZTFM05008A	F.B.T.				Δ							
23	TBM8E2052	MODEL LAB	EL			!	·						
24	TNP8EP017AJ	P P.C.B.				A	EXPLOD	ED VIEW					
MISCEL	LANEOUS COMP	ONENTS					17	TKU8E00621	BACK COVE	R			Δ
			251				18	A66ECF50X82	C.R.T.				Δ
•	TBM8E2015	PRESET LAI	BEL				19	TKY8E523-1	CABINET				
	TPC8E4831	CARTON					20	TLK8E05140	DEGAUSS C	OII			Δ
•	TPD8E726	TOP CUSHIC					21	TNP8EE013BR	E P.C.B.	OIL.			Δ
-	TPD8E727	воттом сс	ISHION				22	ZTFM05008A	F.B.T.				Δ
NSTRU	CTION BOOKS						23	TBM8E2104		=:			47
	TQB8E2987A-1	GERMAN					-		MODEL LABI	EL			á
	TQB8E2987B	DUTCH					24	TNP8EP017AJ	P P.C.B.				Δ
	I MDOE 740 / R	DOTOR				i	į.						

Cct Ref	Parts Number	Description				Cct Ref	Parts Number	Description
MISCEL	LANEOUS COMP	ONENTS						
	TBM8E2151	PRESET LABEL						
1.	TPC8E4834	CARTON						
	TPD8E726	TOP CUSHION						
	TPD8E727	воттом cushi	ON		į			
INSTRU	CTION BOOKS							
•	TQB8E3118A	GERMAN						
	TQB8E3118B	DUTCH				:		
1.	TQB8E3118C	ITALIAN						
	TQB8E3118D	FRENCH				1		
	TQB8E3118E	SPANISH						
	TQB8E3118F	SWEDISH				*		
	TQB8E3118G	NORWEGIAN						
	TQB8E3118H	FINNISH						
	TQB8E3118K	DANISH						
I.C.s								
IC451	LA7876N	VERTICAL OUT	PUT					
IC1103	XLM3-02GFZ	EAROM						
DIODES								
D456	MTZJT-775.6C	DIODE						
D458	EU02V0	DIODE						
COILS		5.052						
J26	T3A205016	COIL						
L581	ELHKLB026B	COIL						
L582	ELC18B271E	COIL			İ			
L583	ELC18B150L	COIL						
L584	ELHKLB025B	COIL			1			
RESIST	ORS							
R460	ERG3SJS151H	METAL	3W 5%	6 150 Ω				
R465	ERJ6GEYJ102		.1W 5%					
R555	ERQ12HKR82P		.5W 10%					
R559	ERQ12HKR82P		.5W 10%					
CAPACI	TORS							
C463	ECA1HM221B	ELECT	50V	220µF				
C551	ECKW3D681JBN		2kV	680pF				
C581	ECWF4684JBB		00V	680nF				
C582	ECWF4684JBB		00V	680nF				
C584	ECWH20562JVB		00V	5.6nF				
C586	ECQF4123JZH		00V	12nF		1		
TERMIN	ALS AND LINKS							
JK3101	TJB8E030	A.V. TERMINAL						

NOTES

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SCHEMATIC DIAGRAMS FOR MODELS TX-28LK10F, TX-25LK10F,TX-28SK10F (EURO-4H CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

NOTES

1. RESISTOR

All resistors are carbon ¼W resistor, unless marked otherwise.

Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)

2. CAPACITORS

All capacitors are ceramic 50V unless marked otherwise. Unit of capacitance is μF unless otherwise stated.

COIL

Unit of inductance is µH, unless otherwise stated.

- Components marked "L" on the schematic diagram shows leadless parts.
- 5. TEST POINT



6. EARTH SYMBOL

Chassis Earth (Cold)



7. VOLTAGE MEASUREMENT

Voltage is measured by a d.c. voltmeter. Measurement conditions are as follows:

Power source Receiving Signal a.c. 220V-240V, 50Hz

All customer controls

Colour Bar signal (RF)
Maximum position

8. Indicates the Video signal path

Indicates the Audio signal path

These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

- The Power Supply Circuit contains a circuit area which uses 1.
 a separate power supply to isolate the earth connection.
 The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits except the Power Circuit, are COLD. Take the following precautions:-
- Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- Do not short circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simutaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

ZEICHENERKLÄRUNG FÜR MODELL TX-28LK10F, TX-25LK10F,TX-28SK10F (EURO-4H CHASSIS)

WICHTIGER SICHERHEITSHINWEIS

Teile, die mit einen Hinweis _____ gekennzeichnet sind, sind wichtig für die Sicherheit, Sollte ein Auswechsein erforderlich sein, sind unbedingt Originalteile einzusetzen.

ANMERKUNG

1. WIDERSTÄNDE

Alle $\frac{1}{4}$ W Widerstände sind Kohlewiderstände, Abweichungen sind folgt gekennzeichnet. Die Maßeinheit ist OHM (Ω) (k=1,000, M=1,000,000)

2. KONDENSATOREN

Alle Kondensatoren sind Keramikausführungen. Spannungsfestigkeit 50V. Abweichungen sind wie folgt gekennzeichnet. Die Maßeinheit ist μF , wenne keine anderen Bezeichnungen gennant sind.

3. SPULEN

Die Maßeinheit ist μH, Abweichungen sind gekennzeichnet.

4. Mit "L" gekennzeichnete Teile sind ohne Anschlußdrähte.

5. TESTPUNKTE

Kennzeichnung der Testpunktposition

6. MASSE SYMBOL

📙 Erdung am Chassis 🔲 Ei

LErdung an Masse-Leitung

7. SPANNUNGSMESSUNG

Spannungsmessungen sind mit einem d.c.-Voltmeter durchzuführen. Die Meßbedingungen sind folgende:
Netzspannung a.c. 220V-240V, 50Hz
Wiedregabe Signal Farbbalken-Testbild
Wiedergabesignal Farbbalken-Testbild (HF)

8. Videosignalweg

Audiosignalweg

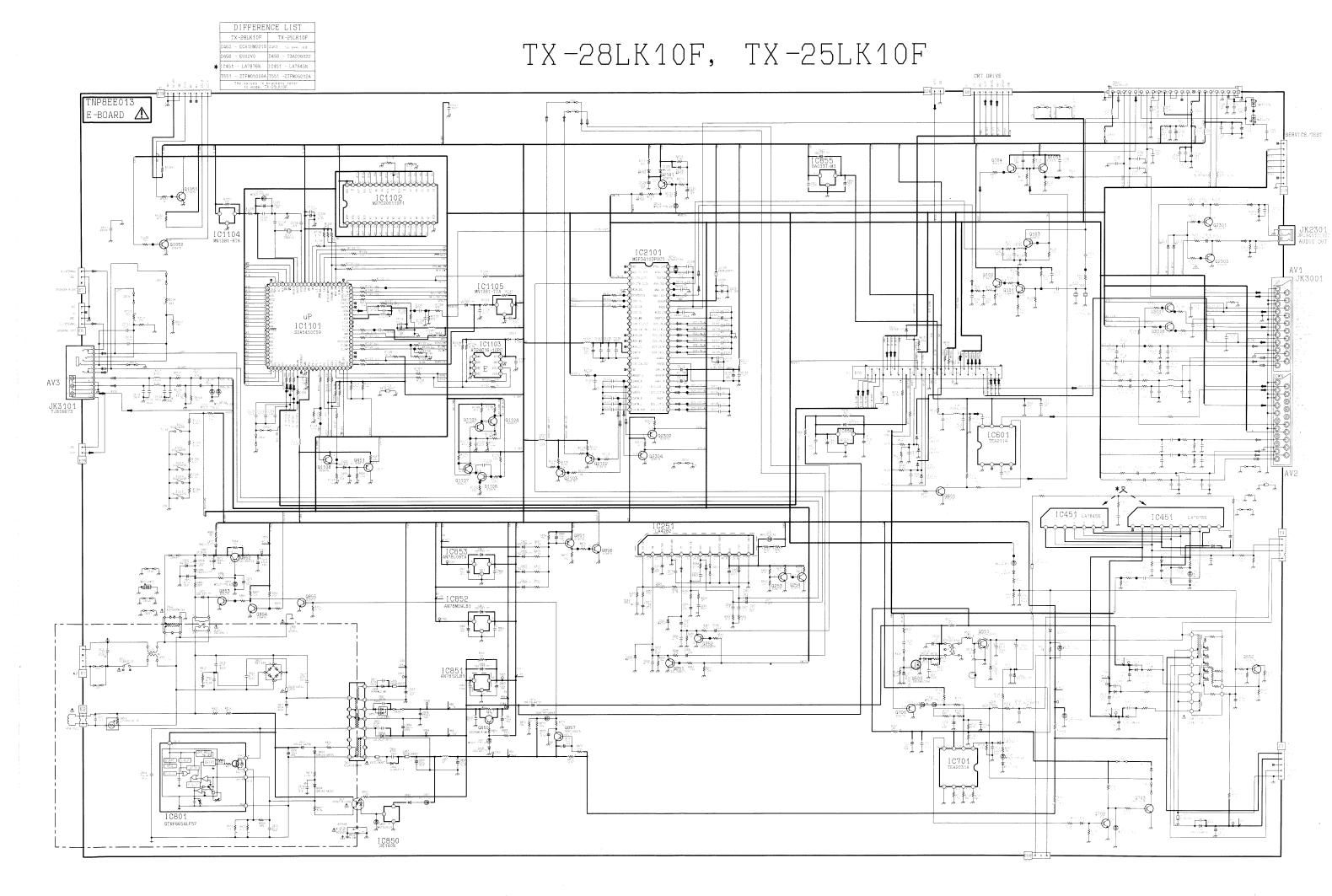
Änderungen im Laufe der Fertigung sind möglich.

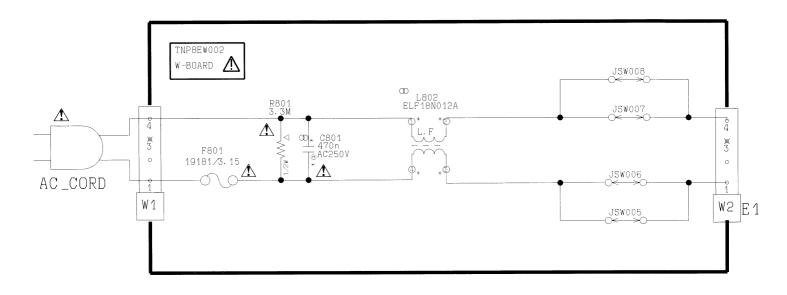
BEMERKUNGEN

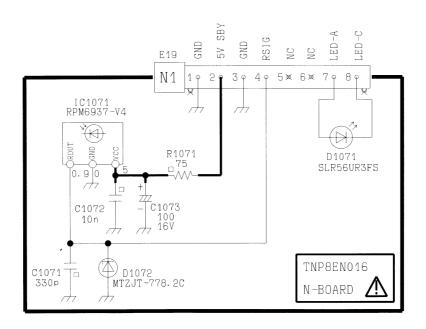
- Das Schaltnetzteil enthält Bereiche, die direkt mit dem Netz verbunden sind. Diese Bereiche sind im Schaltplan mit HOT gekennzeichnet. Alle anderen Schaltungen sind mit COLD gekennzeichnet und haben keine direkte Verbindung mit den Netz:-
- a. Weder die Leitungen im heißen noch Leitungen im
- heißen und im kalten Bereich gleichzeitig berühren. Es besteht die Gefahr eines elektrischen Schlages.
- c. Keinesfalls die Leitungen im heißen Bereich mit denen im kalten Bereich verbinden oder kurzschliessen. Dies kann zur Zerstörung von Bauteilen oder Sicherungen führen. Außerdem ist die elektrische Betriebssicherheit des Gerätes nicht mehr gegeben.

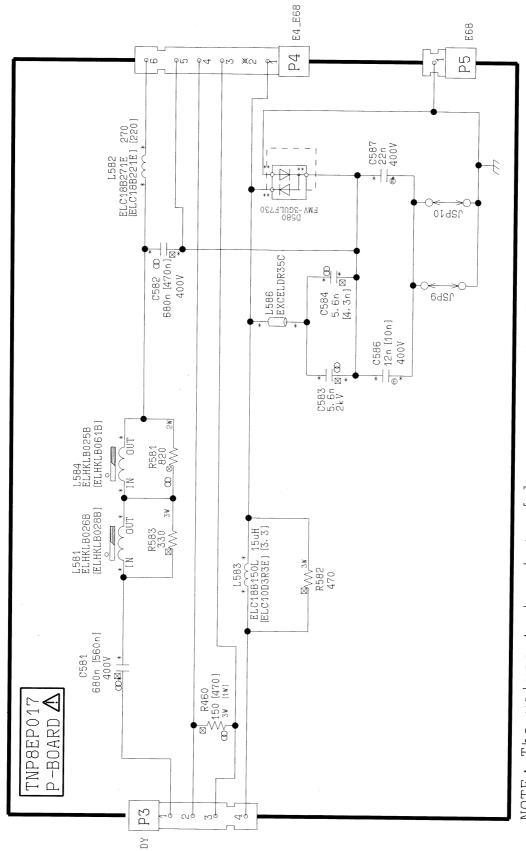
Keine Messinstrumente gleichzeitig an Leitungen im heissen und kalten Bereich anschliessen. Sicherungen könnten zerstört werden. Die Erde des Messinstrumentes immer mit der des zu prüfenden Schaltkreises verbinden.

d. Vor Ausbau des Chassis, Stecker aus der Netzsteckdose ziehen.

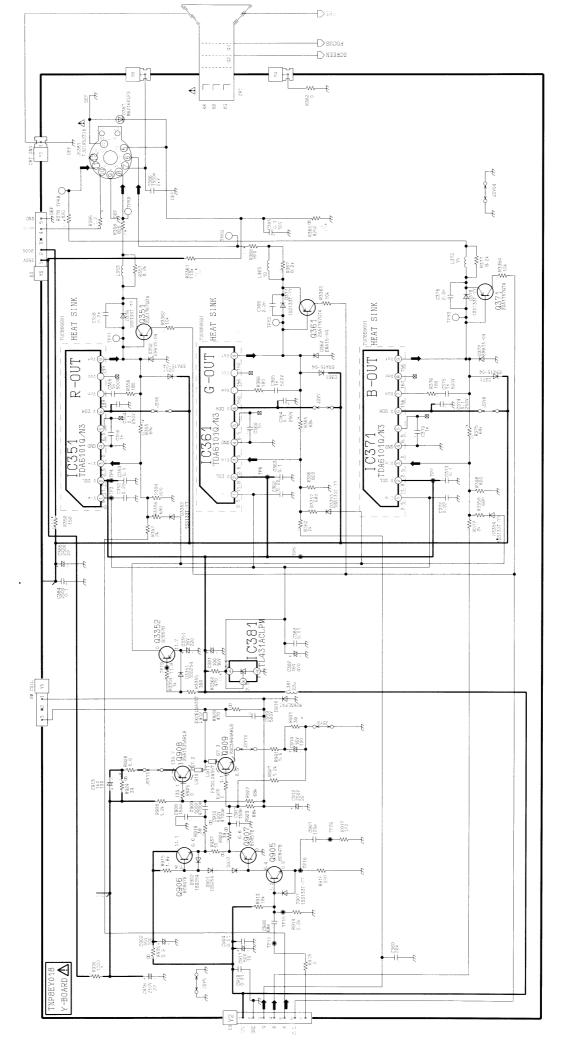






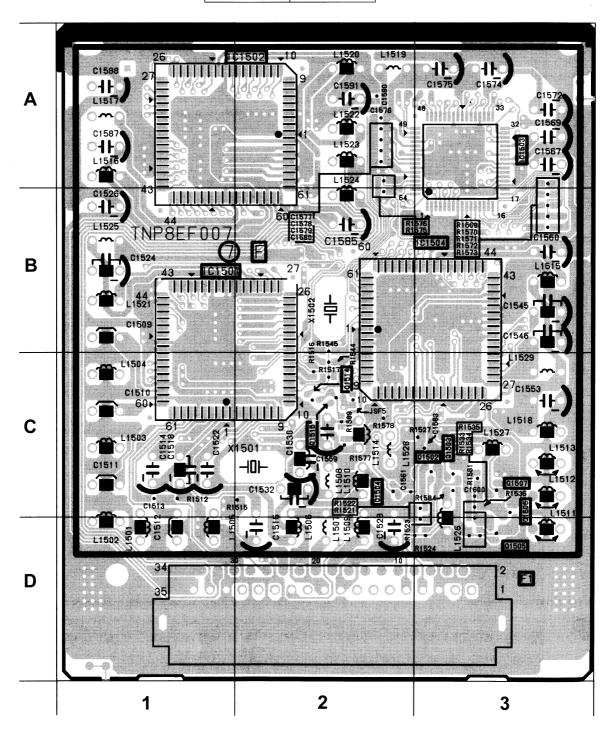


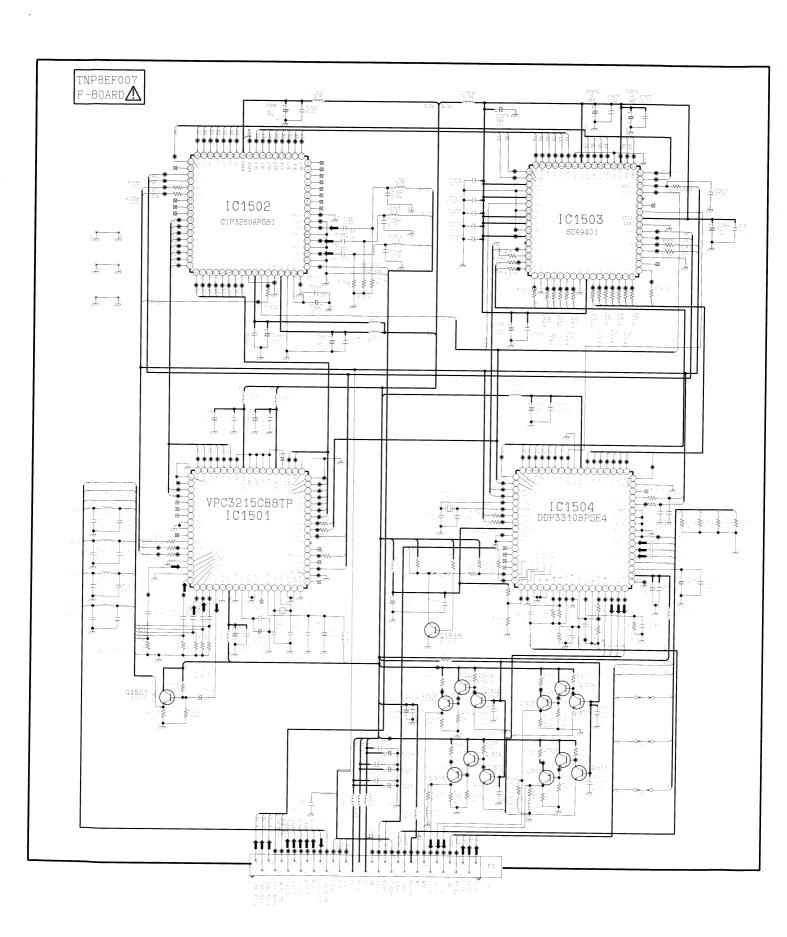
[] refer to model TX-25LK10F. brackets __ NOTE: The values



F - BOARD TNP8EF007

TRAN	1'S	I.C.'S				
Q1502	C3	IC1501	B1			
Q1503	C3	IC1502	A2			
Q1504	C2	IC1503	A3			
Q1505	D3	IC1504	B3			
Q1506	C3					
Q1507	C3					
Q1514	C2					
Q1515	C2					

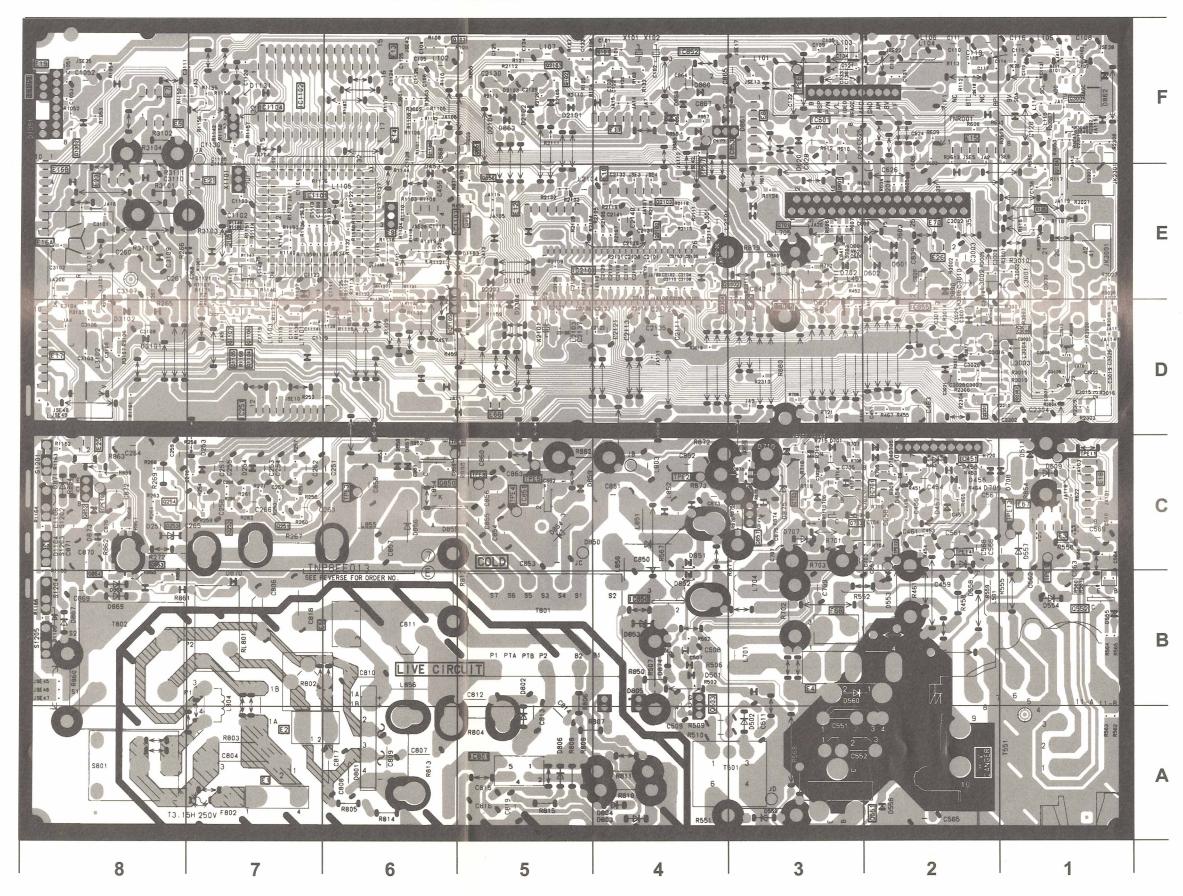




CONDUCTOR VIEWS FOR MODELS ANSICHT DER LEITERBAHNEN FÜR TX-28LK10F, TX-25LK10F, TX-28SK10F

E-BOARD TNP8EE013

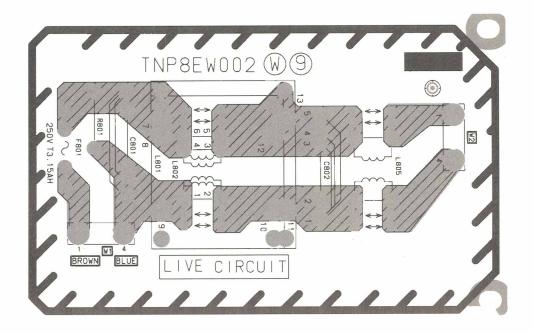
	T=			
TRAN'S			D859	C4
	4 D3101		D860	F4
Q102 F	5 D3102	2* D8	D861	F3
Q103 F	5 D251	C7	D862	F1
Q104 E	1 D253	C7	D863	F5
Q105 E	1 D254	C7	D864	F4
	7 D453	E6	D865	F4
	8 D454	C2	D866	F4
	7 D456	C2	D867	B8
	7 D457	C2	D868	B8
	7 D458	C2	D869	B8
	7 D501	B4	D870	B7
	6 D502	A3	D871	
				C8
		C1	D873	C8
	4 D553	B2	D874	B4
	2 D554	B1	D875	C3
	3 D556	A2	D890	E2
Q2303 D		C1	D891	E3
	4 D558	C2		
	7 D560	B2	IC'S	3
Q252 C	7 D561	B1	IC1101	E6
Q253 C	8 D562	C1	IC1102	F6
Q254 C		E2	IC1103	E6
Q3006 F		E2	IC1104	F7
Q3007 F		E2	IC1105	D5
Q451 E		E2	IC2101	E4
Q503 A		C1	IC251	D7
Q551 A		D8	IC451	C2
Q552 B		F3	IC601	F3
Q601 E		C3	IC701	
Q701 E				C2
		E3	IC801	A4
Q702 C	3 D703	E3	IC850	B4
Q703 C		C2	IC851	C5
Q850 C		C2	IC852	F4
Q851 F		C3	IC853	F3
Q852 C		C3	IC855	E2
Q853 B	8 D708	C1	IC856	E3
Q854 B		C2		
Q855 C	3 D710	C3	TP'S	3
Q856 E	5 D801	A6	TPE1	C1
Q857 C		A4	TPE2	C4
	D804	A4	TPE3	C6
DIODES		B4	TPE4	C5
D101 F1		A4	TPE5	C5
D102 F1		C4	TPE6	F3
D1101 F1		C4	TPE7	F4
D1131 F7		B4	TPE8	C5
D2101 F5		B4		
			TPE9	C6
		C5	TPE10	C8
D2103 F5		C5	TPE11	C1
D2104 F5		C6	TPE12	C2
D0405			111112	111
D2105 F5		C6	TPE13	C1
D2105 F5 D2303 D5 * not used for	D858	C6	TPE13	C2



Y - BOARD TNP8EY018

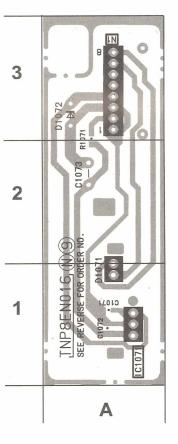
TRA	N'S		0 THEODO	30	YA
Q3352	A2		SEE REVERSE PO	02252 (0	
Q351	В3		R365	THE RESERVE THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA	
Q361	B2		## /// A ## OHO!	₩ 83	- TO 9.
Q371	C2	A	D374 C360	C365	2 2
Q905	B1	A	C362	9 5 Rad51 a	R3356
Q906	C1		8 R396 2 C364 7	Ray Tale	394
Q907	B1		1335	Z 2 C361	R355 C355
Q908	D1		D362	9,5	9 0
Q909	D1		R33	李 5 8 .	*
DIOD	DES		C359 R35	0375	- R357
D3351	A2		C379 C369	D 2 R 1 C 35 1 F	C354 - TS
D3352	A3		is in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	7 TP	
D3353	A1	В	8 - 28 - 20 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	ANG ANG	1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
D3354	C3	Ь	B S S S S S S S S S S S S S S S S S S S	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	Rassa Coppe
D351	B3		99 C967 R917		3
D352	B3		C917 D387/		
D361	B2		C904 R916	G1 G2 KR	
D362	A1		10907 R914	L R	R386
D371	D2			38	
D372	C2			6	R378
D376	B3 ⁻		G9061 25	PEG	
D377	A2			K07	33 C382
D378	C2	С		L373 D37	B - DB73 R381
D387	B1	•	-337 LE 5///	JSY02 5 5	R3 C383
D901	C1		R937 C908	0371	
D902	C1		C911	C916	
D903	C1		0914		0000
D907	B1		C912	D372	6971
D910	C1		728	-	- 1 R375
I.C.			20 11-22-7	3	C375
IC351	A3		R94 L910 C R938		
IC361	A1	D		R390	2 -
IC371 IC381	C3	D	L911 m	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	T T T
T.P.			R929 G R92	R336	g R383
TPY1				0 00000	11 302
TPY1	B3 A2		2 000 H	7 J	
TPY3	C3		m m	R906	T
TPKR	B3				
TPKG	B2		1	2	3
TPKB	C2			_	3
ווועט	02				

W - BOARD TNP8EW002



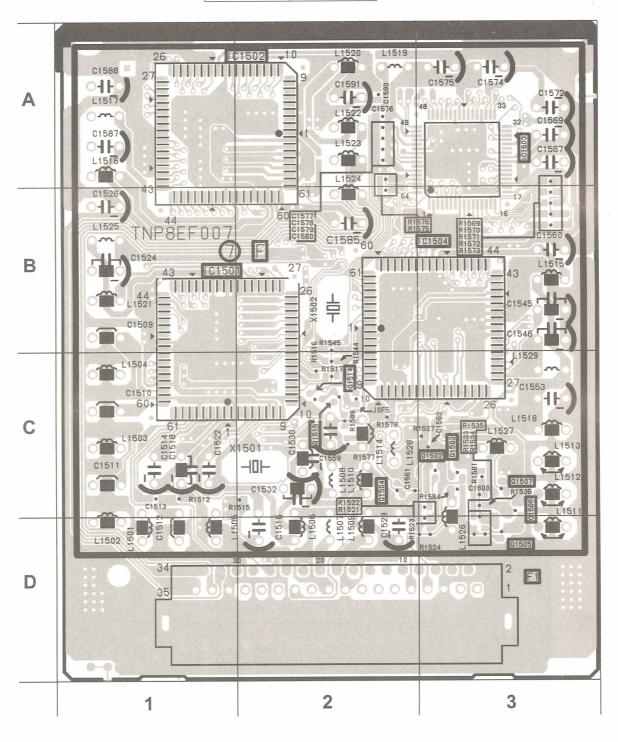
N - BOARD TNP8EN016

DIOD	ES
D1071	A1
D1072	A3
I.C.	S
IC1071	A1



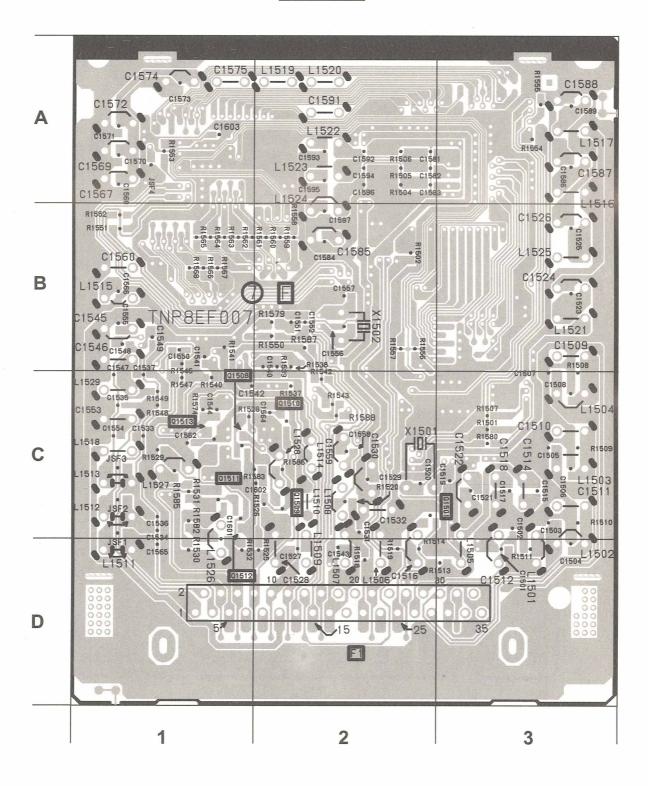
F - BOARD TNP8EF007

TRAN	l'S	I.C.'S				
Q1502	C3	IC1501	B1			
Q1503	C3	IC1502	A2			
Q1504	C2	IC1503	A3			
Q1505	D3	IC1504	B3			
Q1506	C3					
Q1507	C3					
Q1514	C2					
Q1515	C2					



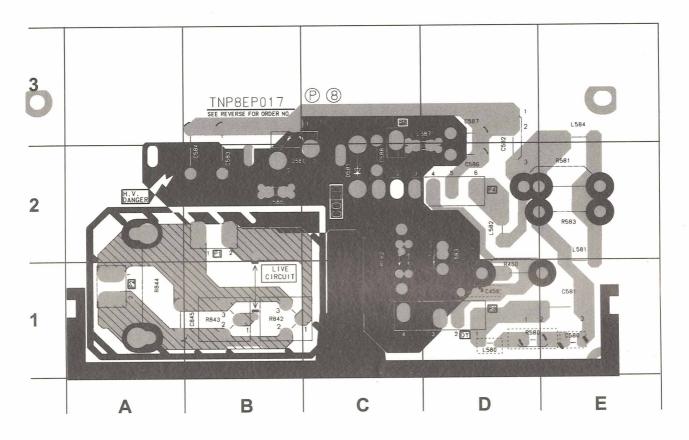
F - BOARD TNP8EF007

TRAN'S			
Q1501	C3		
Q1508	C1		
Q1509	C2		
Q1510	C2		
Q1511	C1		
Q1512	D1		
Q1513	C1		



P - BOARD TNP8EP017

DIODES D580 B2



SUPPLEMENT 1:

NACHTRAG 1:

CHANGE OF CRT FOR MODELS TX-28LK10F, TX-28SK10F BILDSCHIRMÄNDERUNG FÜR MODELLE TX-28LK10F, TX-28SK10F

DIFFERENCE LIST

Description	Before change	After change	
C463	ECA1HM221B	NIL	
C551	ECKW3D681JBN	ECKW3D471KBN	
C581	ECWF4684JBB	ECWF4824JBB	
C582	ECWF4684JBB	ECWF4514JBB	
C583	ECWH20562JVB	ECWH20472JVB	
CRT	A66ECF50x82	A66EAK075x54	
D456	MTZJT-775.6C	MTZJT-777.5B	
D458	EU02VO	T3A206022	
IC451	LA7876N	LA7845N	
L582	ELC18B271E	ELC18B221E	
L583	ELC18B150L	ELC10D3R3E	
L584	ELHKLB025B	ELHKLB061B	
R460	ERG3SJS151H	ERG1SJ471P	
R465	ERJ6GEYJ102V	ERJ6GEYJ821V	
R555	ERQ12HKR82P	ERQ12HKR33P	
R559	ERQ12HKR82P	ERQ12HKR33P	
T551	ZTFM050008A	ZTFM05012A	
ADJUSTMENT PROCEDURE / ABGLEICH :			
B13	13,5V ± 1V	16,5V ± 1V	
B14	- 14V ± 1V	- 10V ± 1V	

NOTE: Change of CRT was implemented from the serial number of TV set NC-0630001.

HINWEIS: Bildschirmänderung wurde appliziert seit Serien-NR. des Fernsehgerätes NC-0630001.

SUPPLEMENT 2:

NACHTRAG 2:

POWER FACTOR CORRECTION OF MODELS TX-28LK10F, TX-28SK10F, TX-25LK10F BEGRENZUNG DES HARMONISCHEN STROMS FÜR MODELLE TX-28LK10F, TX-28SK10F, TX-25LK10F

DIFFERENCE LIST

Before correction	After correction
NIL	ECJ2YB1H104K
NIL	222233510224
222233510224	NIL
NIL	222233510154
NIL	UDZTE-1722B
NIL	1SS355TE-17
T3A205016	NIL
TNP8EE013-7	TNP8EE013-6
NIL	B3P4-VH-B-L
NIL	B3P4-VH-B-L
T3A206022	NIL
T3A206022	NIL
	T3A206027
	T3A206027
	NIL
	T3A206032
T3A206037	NIL
T3A206037	NIL
NIL	ERJ6GEY0R00V
	ERJ8GEY0R00V
	ERJ6GEY0R00V
	ERJ8GEY0R00V
	T3A205016
NIL	T3A205016
NIL	T3A206037
T3A206022	NIL
ELF18N012A	NIL
NIL	ELF18N012A
NIL	ETQR42T005A
TNP8EP017-8	TNP8EP017-7
NIL	B3P4-VH-B-L
NIL	B3P4-VH-B-L
NIL	BC847B
NIL	ERJ6GEYJ102V
NIL	ERJ6GEYJ104V
NIL	ERJ6GEYJ102V
NIL	ERJ6GEYJ101V
	NIL NIL NIL 222233510224 NIL NIL NIL T3A205016 TNP8EE013-7 NIL NIL T3A206022 T3A206022 NIL NIL T3A205016 NIL T3A205016 NIL T3A206037 T3A206037 NIL NIL NIL NIL NIL NIL NIL NIL NIL NIL

NOTE: Power Factor Correction was implemented from the serial number of TV set :

NG-0650001 - TX-25LK10F, NG-0640001 - TX-28LK10F,

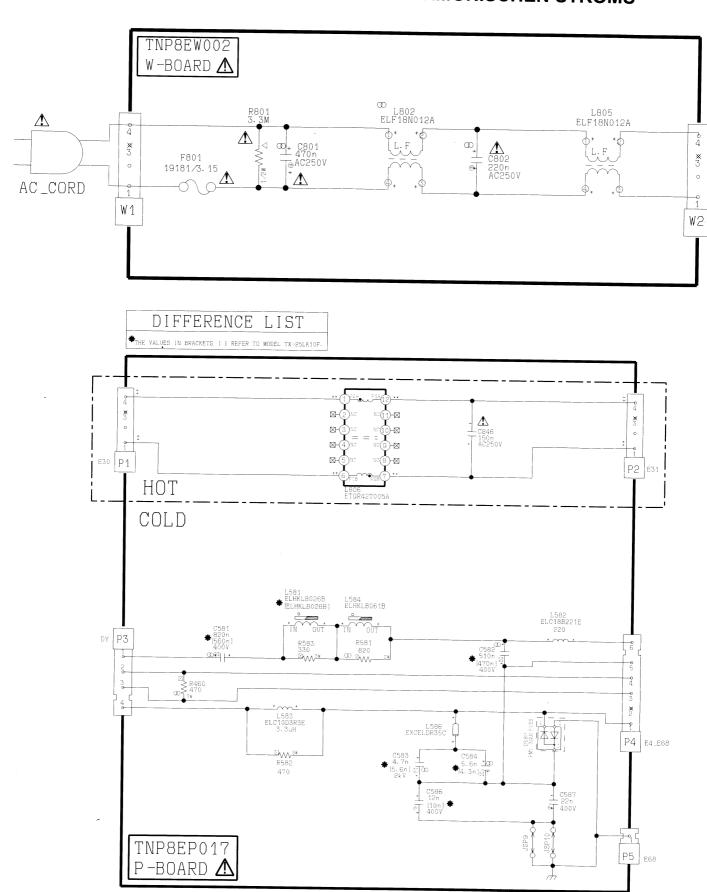
NG-1130001 - TX-28SK10F

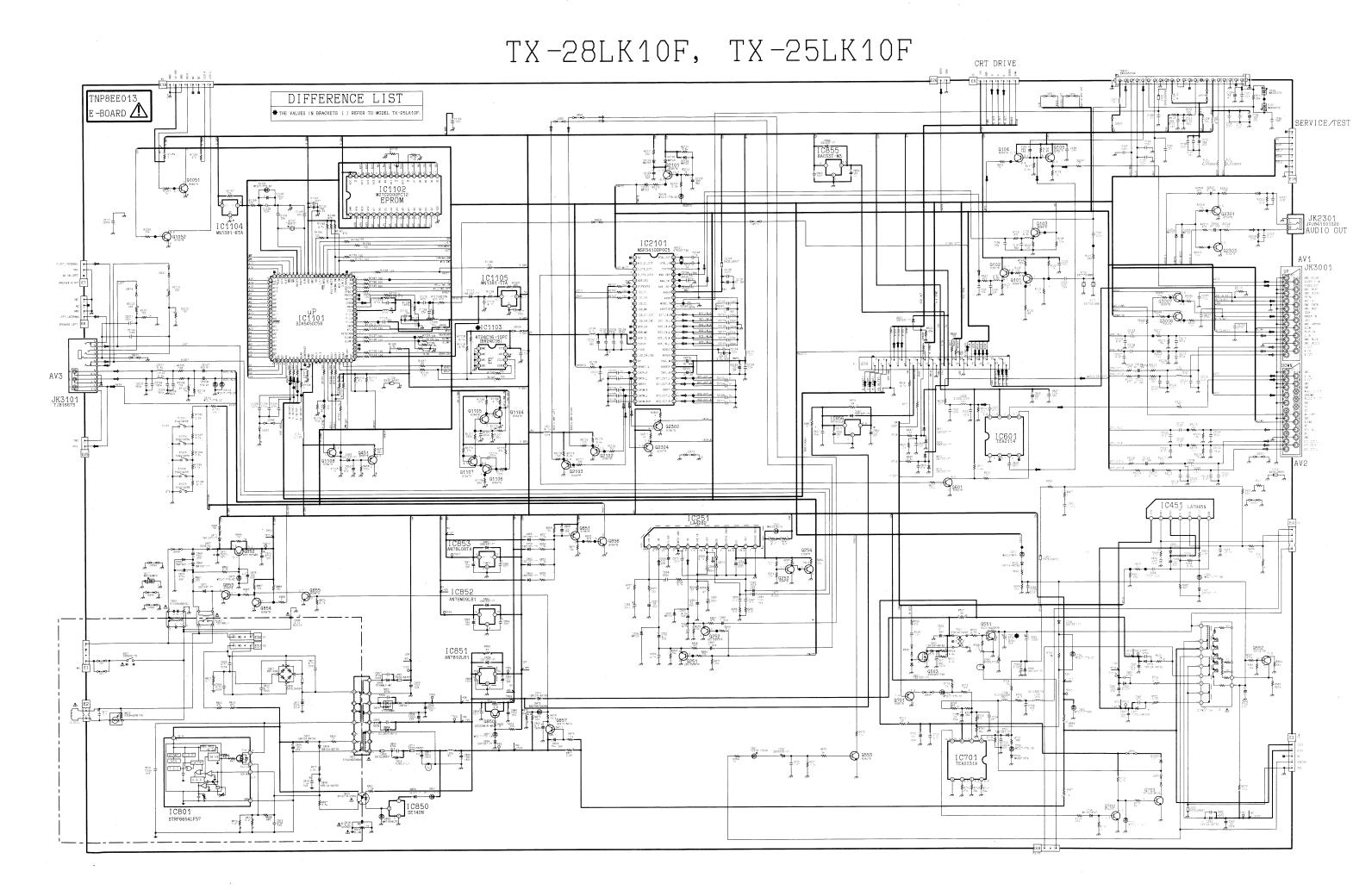
HINWEIS: Begrenzung des harmonischen Stroms wurde appliziert seit Serien-NR. des Fernsehgerätes: NG-0650001 - TX-25LK10F, NG-0640001 - TX-28LK10F, NG-1130001 - TX-28SK10F

MODIFIED SCHEMATIC DIAGRAMS AFTER CRT AND POWER FACTOR ALTERATION

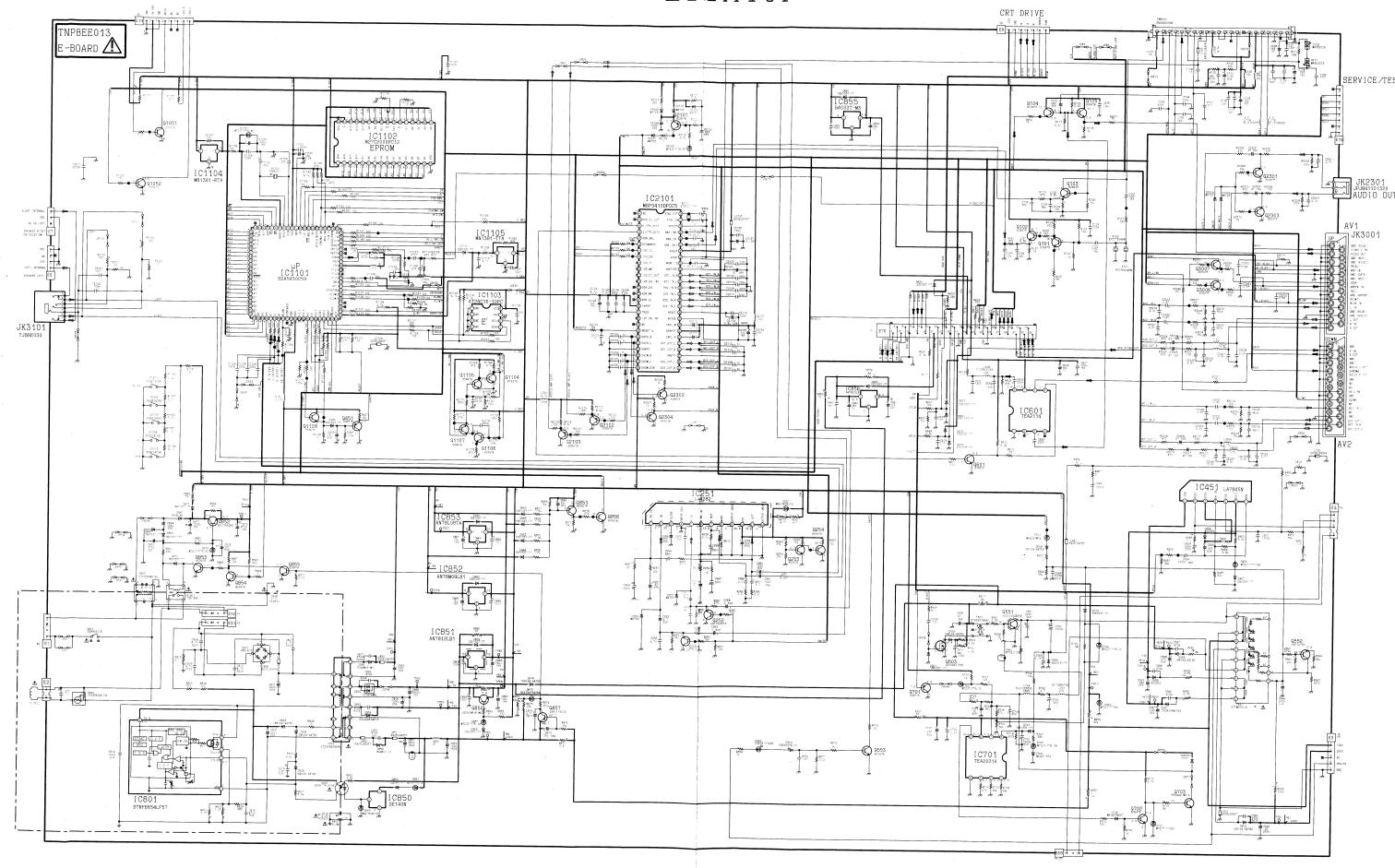
MODIFIZIERTE SCHEMATISCHE DIAGRAMME NACH DER BILDSCHIRMÄNDERUNG UND BEGRENZUNG DES HARMONISCHEN STROMS

E1





TX-285K10F



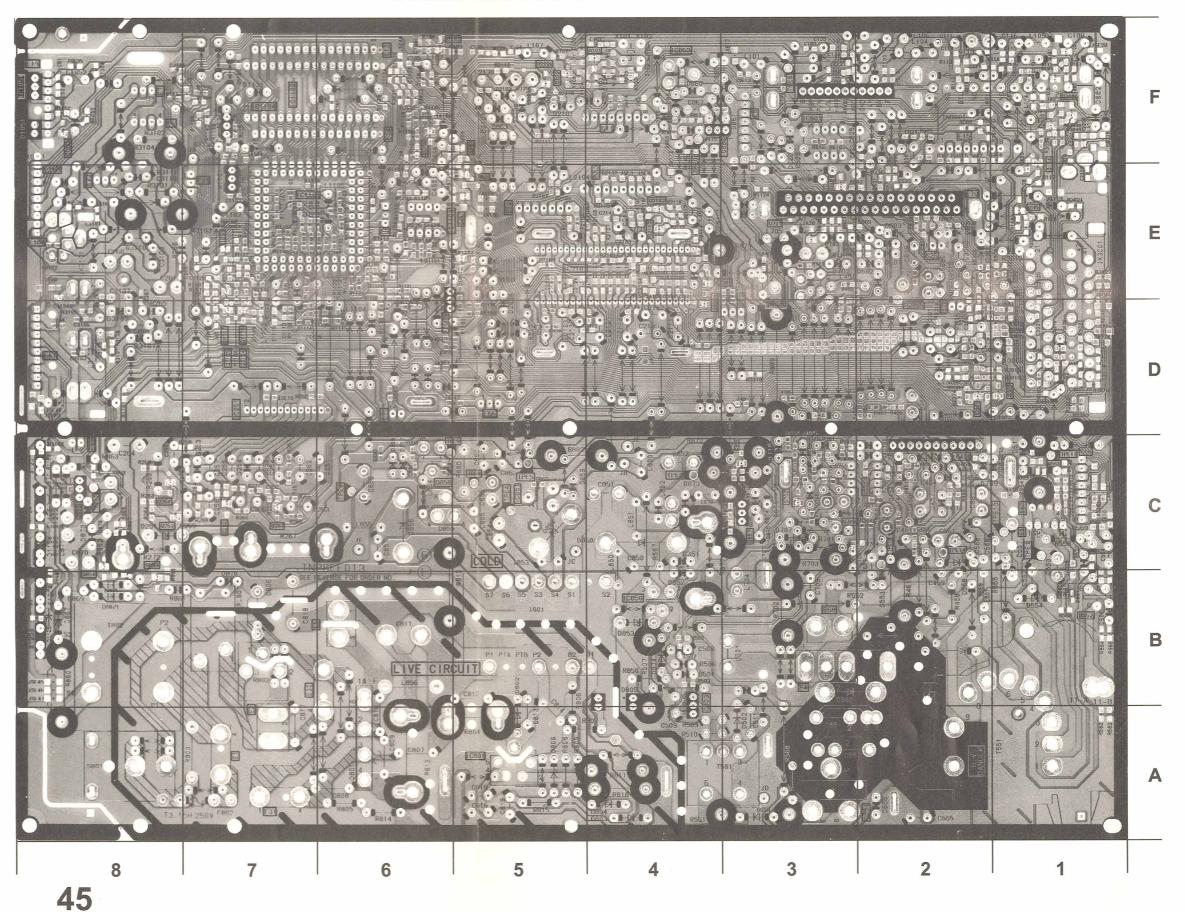
MODIFIED PCB AFTER CRT AND POWER FACTOR ALTERATION

MODIFIZIERTES PCB NACH DER BILDSCHIRMÄNDERUNG UND BEGRENZUNG DES HARMONISCHEN STROMS

E-BOARD TNP8EE013 - 6

ADDED COMPONENTS

TRAN'S				
Q553	C1			
DIODES				
D561	B1			
D562	C1			



NOTES

1
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-
-
-

P-BOARD TNP8EP017 - 7

DIODES D580 B3

